

حمل الآن

مجاناً وحصرياً

امتحانات رقم (1)

الترم الاول



Model Exam 1



1 (A) Write the scientific term :

The main building unit of living organisms bodies that can do all vital processes.

(.....)

(B) Complete the following sentences :

1. The cellulose makes up the which is found in cells only.
2. Endocrine system consists of which secrete that control body temperature and blood pressure.
3. Rubber is an electric, while copper is an electric
4. Thermal energy relates to the total sum of the energy of substance's atoms and

2 (A) Cross out the odd word :

Conduction - Convection - Friction - Radiation.

(.....)

(B) What happens if ... ?

1. Exposure of air inside car tires to extreme heat.

.....

2. The human body is at risk.

.....

3. Concrete is left to dry.

.....

4. Electric circuits in houses are connected in series.

.....

3 (A) Choose the correct answer :

1. The transformation of gas into liquid is called and the reverse process is called

a. melting - evaporation.

b. evaporation - melting.

c. evaporation - condensation.

d. condensation - evaporation.

2. Generators convert energy to energy.

a. chemical - thermal

b. thermal - sound

c. sound - mechanical

d. mechanical - electrical

(B) Give reasons for :

1. The heart muscle is an involuntary muscle.

2. The kidney contains nephrons.

3. Cobalt and nickel are considered as magnetic materials.

4 (A) Correct the underlined words :

1. Thermal equilibrium occurs when the temperature of the two objects varies. (.....)

2. When the heartbeats increase, the blood pressure decreases. (.....)

(B) What is the importance (use) of ... ?

1. Smart clothes.

2. Thermometer.

3. Skin.

Model Exam 2



1 (A) Correct the underlined word :

Iron body is made of metal like glass.

(.....)

(B) Compare between :

1. Chloroplasts and mitochondria. (In term of : function)

Point of comparison	Chloroplasts	Mitochondria
Function :		

2. Magnetic materials and non-magnetic materials.

(in terms of : definition - examples)

Points of comparison	Magnetic materials	Non-magnetic materials
Definition :		
Examples :		

2 (A) Write the scientific term :

The energy that matter gains due to the movement of its molecules. (.....)

(B) Give reasons for :

1. The kidney is considered one of the excretory organs.

.....

2. Plants can make their own food while animals can't.

.....

3. Cooking pots are made up of aluminum, and their handles are made up of plastic.

.....

4. The size of a balloon decreases if it is subjected to cold weather.

.....

3 (A) Choose the correct answer :

1. Thermal energy is

a. body temperature.

b. heat transfer.

c. mass of matter.

d. total kinetic energies of molecules and atoms.

2. is a material that is attracted to the magnet.

- a. Copper b. Aluminum c. Gold d. Nickel

(B) What happens when ... ?

1. The cell has no cell membrane.

2. Contraction and relaxation of heart muscle occur.

3. A metal nail is placed in a closed electrical circuit containing a lamp.

4 (A) Put (✓) or (X) :

1. Glass manufacturing needs low temperature. ()

2. In chemical change, the characteristics of the new material are different from the characteristics of the materials from which it is made. ()

(B) What is the function of ... ?

1. Eye muscles.

2. Pancreas.

3. Thermostat.

Model Exam 3



1 (A) Write the scientific term :

The temperature at which the material turns from a liquid state to a gaseous state.

(.....)

(B) Compare between :

- Electrically conducting materials and electrically insulating materials.
(in term of : definition)

Point of comparison	Electric conductors	Electric insulators
Definition :		

- Solids, liquids and gases (in terms of : shape - volume)

Points of comparison	Solids	Liquids	Gases
1.Shape :			
2.Volume :			

2 (A) Correct the underlined word :

Decreasing the mass of a moving object on a ramp causes the increase of its speed.

(.....)

(B) Mention one use for each of the following :

- Heart muscle.

.....

- Switch.

.....

- The resistor.

.....

- Nucleus.

.....

3 (A) Put (✓) or (X) :

1. The mass of a solid piece of ice is greater than the same mass when it melts. ()
2. When you stir a cup of hot tea with a plastic spoon, the heat is transferred from the spoon to your hand. ()

(B) What happens when ?

1. A lot of water entered the cell and did not come out of it.

.....

2. The diaphragm muscle contracts.

.....

3. The distance between an object and Earth's center increases.

.....

4 (A) Cross out the odd word :

Dogs - Birds - Insects - Horses.

(.....)

(B) What is meant by ... ?

1. Freezing process.

.....

2. Excretion process.

.....

Model Exam 4



1 (A) Cross out the odd word :

Oil - Water - Milk - Water vapor.

(.....)

(B) Give reasons for :

1. The speed of spreading the color of food in cold water is less than the speed of spreading in hot water.

.....

2. Connecting light bulbs in homes in parallel.

.....

3. Muscle cells are in the form of long fibers.

.....

4. Iron is attracted to the magnet, while rubber is not attracted to the magnet.

.....

2 (A) Write the scientific term :

The increase in the size of a substance due to an increase in its temperature.

(B) What happens to ... ?

1. The animal cell if it is surrounded by a cell wall.

.....

2. The lungs when the diaphragm muscle relaxes.

.....

3. The mass of a piece of butter after melting it.

.....

4. The state of glass when it is heated at very high temperature.

.....

3 (A) Correct the underlined words :

1. A tissue is made up of a group of organs.

(.....)

2. Magnetism is a pulling or pushing force, while gravity is a pushing force only.

(.....)

(B) Mention the importance of :

1. Generator :

.....

2. Endoplasmic reticulum.

3. Thermos.

4 (A) Put (✓) or (X) :

1. Bacteria and horse are considered multicellular organisms. ()

2. Heat transfers from the hotter object to the cooler object. ()

(B) Compare between :

1. Small intestine and large intestine. (in term of : function)

Point of comparison	Small intestine	Large Intestine
Function :	 	

2. Conduction and convection. (in term of : definition)

Point of comparison	Conduction	Convection
Definition :	 	

3. Electric conductors and electric insulators. (in term of : examples)

Point of comparison	Electric conductors	Electric insulators
Examples :	 	

Model Exam 5



1 (A) Complete the following sentence :

The material in gaseous state has volume and shape.

(B) What happens when ...?

1. Two objects come into contact, one is hot and the other is cold.

.....

2. We expose water vapor to a cold surface.

.....

3. There is no chloroplasts inside plant cells.

.....

4. Your body doesn't get rid of waste.

.....

2 (A) Cross out the odd word :

Battery - Switch - Paper - Lamp.

(.....)

(B) Write the scientific term of each of the following :

1. They are muscles that you can control their movement.

(.....)

2. A mixture of rocks, sand and water which becomes hard after it dries.

(.....)

3. The way by which heat is transferred through solids only.

(.....)

4. The component of the cell that allows the substances to enter and exit it.

(.....)

3 (A) Put (✓) or (X) :

1. Copper and aluminum are magnetic materials.

2. Glass and wood are bad conductors of heat.

(B) Give reasons for :

1. The liver and muscles convert the stored glycogen into glucose sugar.

.....

2. Expansion joints are used in the design of bridges.

.....

3. Some electric circuits contain resistors.

.....

4 (A) Choose the correct answer :

1. All the following living organisms bodies are built up of many cells, except
 - a. human.
 - b. fish.
 - c. plant.
 - d. bacteria.
2. The magnetic effect around a conducting wire that has an electric current and wrapped around a metal core, is known as
 - a. the electric curcuit.
 - b. the magnetic field.
 - c. the electric current.
 - d. the gravity force.

(B) State the importance of each of the following :

1. Galvanometer.

.....

2. Cell wall.

.....

3. Endocrine system.

.....

Model Exam 1

1 (A) The cell.

- (B) 1. cell wall - plant
2. glands - hormones
3. insulator - conductor.
4. kinetic - molecules.

2 (A) Friction. [all items are methods of transferring thermal energy, Except friction].

- (B) 1. The volume of car tires increases.
2. The brain sends a signal to the muscles to contract and allow the body to face the danger, also the heart pumps more blood to the muscles so blood pressure increases.
3. It becomes hard.
4. If one light bulb blows out or disconnected, the other bulbs will not work.

3 (A) 1. d 2. d

- (B) 1. Because it moves automatically and you cannot control its movement.
2. To filter the blood and remove harmful substance from the body.
3. Because they are attracted to the magnet.

4 (A) 1. similar. 2. increases.

- (B) 1. They can :
- Control your body temperature.
- Light up in the dark.
- Keep themselves clean.
2. It is used to measure the temperature of materials.
3. It helps the body to get rid of some waste materials in the form of sweat.

Model Exam 2

1 (A) iron.

(B) 1. Chloroplasts and Mitochondria.

Point of comparison	Chloroplasts	Mitochondria
Function	They have chlorophyll that absorbs the energy of the sunlight for the plant to make its own food through the photosynthesis process	They provide the cell with the energy it needs by converting sugar inside the cell into energy through cellular respiration.

2. Magnetic materials and non-magnetic materials :

Points of comparison	Magnetic materials	Non-magnetic materials
Definition :	They are materials that are attracted to the magnet.	They are materials that are not attracted to the magnet.
Examples :	Iron, nickel and cobalt.	Aluminum, plastic, copper and wood.

2 (A) Kinetic energy.

- (B) 1. Because it filters the blood from waste materials which is called urea.
2. Because plant cells contain chloroplasts but animal cells don't contain chloroplasts.
3. Because aluminum is a thermal conductor while plastic is a thermal insulator.
4. Because the air inside the balloon contracts by cooling.

3 (A) 1. d 2. d

- (B) 1. The cell can't control the substances that can enter or leave it.
2. The blood carrying oxygen will be pumped to all the body cells.

3. The electric current will pass through the metal nail and the lamp will light up.

4 (A) 1. (x) 2. (✓)

- (B) 1. They contract when you close your eyelid to allow you blink many times in one minute without thinking.
2. It secretes insulin hormone which regulates the amount of sugar level in blood.
3. It adjusts the temperature inside devices such as refrigerator.

Model Exam 3

1 (A) Boiling Point.

- (B) 1. Electric conductors and electric insulators.

P.O.C	Electric conductors	Electric insulators
Definition :	They are materials through which electric current flows easily.	They are materials through which electric current does not flow easily.

2. Solid, liquids and gases:

P.O.C	Solids	Liquids	Gases
1. Shape :	Fixed	Variable	Variable
2. Volume :	Fixed	Fixed	Variable

2 (A) Increasing

- (B) 1. It contracts and relaxes without stopping to allow the heart pumps the blood carrying oxygen to all the body cells.
2. It opens and close the electric circuit.
3. It is used to slow the flow of electrons through an electric circuit to avoid the damage of other components of an electric circuit.
4. It controls all the cell activities such as :
- Formation of proteins
- Cell division to form new cells.

3 (A) 1. (x) 2. (x)

- (B) 1. The cell will swell until it bursts
2. The lungs take in the air rich in oxygen gas.
3. The force of gravity decreases.

4 (A) Insects. (all items have bones, while insects have exoskeleton)

- (B) 1. It is the change of state of matter from liquid state to solid state.
2. It is the process through which the body gets rid of waste materials produced from cells.

Model Exam 4

1 (A) Water vapor. (all items are liquids, while water vapor is a gas).

- (B) 1. Because the kinetic energy of cold water particles is less than that of hot water particles.
2. Because if one light bulb blows out the other light bulbs will remain lit in the parallel circuit.
3. To allow the movement.
4. Because iron is a magnetic material while rubber is a non-magnetic material.

2 (A) Expansion.

- (B) 1. The animal cell will have a definite shape.
2. The lungs release the air rich in carbon dioxide gas.
3. Its mass doesn't change.
4. It changes from solid state into liquid state.

3 (A) 1. system 2. pulling

- (B) 1. It changes kinetic energy into electrical energy.
2. It helps in assembling (collecting) and transporting proteins inside the cell to build and repair the cell.

3. It is used to keep the temperature of drinks inside it, as thermos is made up of heat insulating materials.

4 (A) 1. (x) 2. (✓)

(B) 1. Small intestine and large intestine

P.O.C	Small intestine	Large intestine
Function	- It completes the digestion process of food. - Absorption of nutrients takes place in it.	- It absorbs most of water from the undigested food.

2. Conduction and convection :

Point of comparison	Conduction	Convection
Definition :	Heat transfers by conduction when objects with different temperatures touch each other.	Heat transfers by convection due to the movement of a liquid or gas.

3. - **Electric conductors** : iron - copper

- aluminum.

- **Electric insulators** : plastic - wood - glass

Model Exam 5

1 (A) variable - variable

- (B) 1. The thermal energy transfers from the hotter object to the cooler object until they reach the thermal equilibrium.
2. It condenses and changes into liquid water.
3. Plant cells cannot make their own food by photosynthesis process.
4. The body will get sick.

2 (A) Paper [all items are parts of an electric circuit, Except paper].

(B) 1. Voluntary muscles.

2. Concrete.

3. Conduction.

4. Cell membrane.

3 (A) 1. (x) 2. (✓)

(B) 1. To provide the body with its needed energy.

2. To keep the bridges safe from buckling when they expand at high temperatures.

3. Because resistors are used to slow the flow of electrons through an electric circuit to avoid the damage of its other components.

4 (A) 1. d 2. b

(B) 1. It is used to detect the flow of small electric current.

2. It surrounds the plant cell to give it a definite shape.

3. It controls the body temperature and the blood pressure.

1 Cairo Governorate**Eastern Nasr City Educational Zone****1 (A) Put (✓) or (X) :**

1. Tissue is a group of similar cells have the same function. ()
2. As thermal energy of the body increases, kinetic energy of its particles increases. ()
3. Animal cell is surrounded by a cell wall to protect it. ()

(B) Give reasons for :

1. We can't control the movement of heart muscle.
.....
2. Iron is a magnetic material.
.....

2 (A) Cross the odd word :

Battery – Switch – Paper – Lamp – Wire. (.....)

(B) Complete the following sentences :

1. is used to measure temperature.
2. is the building unit of living organisms.
3. Endocrine glands secrete
4. Electric circuits in houses are connected in way.

3 (A) Choose the correct answer :

Body gets rid of urine through the system.

- a. digestive b. nervous c. urinary d. circulatory

(B) Write the scientific term :

1. A tool which is used to open and close the electric circuit. (.....)
2. The part of the cell that controls cell division. (.....)
3. The increase in the size of a substance due to increasing its temperature. (.....)
4. A system that transports the digested food and oxygen to all body cells. (.....)

2

Cairo Governorate

Central Cairo Educational Zone

1 (A) Choose the correct answer :

1. A component of the cell that can store nutrients, water, and waste is known as
a. vacuole. b. cytoplasm. c. mitochondria.
2. All of the following are voluntary muscles in the human body, except
a. arm muscles. b. neck muscles. c. heart muscle.
3. The is the energy source in an electrical circuit.
a. wire b. battery c. switch

(B) What happens if ...?

There is no gaps between railway tracks.

.....

2 (A) Put (✓) or (X) :

Bacteria are multicellular organisms.

()

(B) Answer the following questions :

1. Why is the kidney considered the main organ in the urinary system ?
.....
2. When you touch a hot cup of tea, how can heat transfer to your hand ?
.....

3 (A) Complete the following sentence :

A tissue is made up of a group of similar

(B) Answer the following questions :

1. What happens when one of the bulbs in a series circuit burns out ?
.....
2. What happens to the motion of particles in a substance when it is heated ?
.....

3

Cairo Governorate

Mokattam Educational Zone

1 (A) Put (✓) or (X) :

1. Animal cells and plant cells are similar in their shape and structure. ()
2. Blood cells and proteins do not pass through nephrons. ()
3. The magnet attracts all materials. ()

(B) Give a reason for the following :

We feel hot when holding a hot cup of tea.

.....

2 (A) Complete the following using words in brackets :

The part of the cell responsible for generating energy is the
(golgi apparatus – mitochondria)

(B) Correct the underlined words :

1. A tissue is made up of a group of organs. (.....)
2. The transfer of heat by the movement of liquid and gas is called radiation. (.....)

3 (A) Choose the correct answer :

A magnet can be made from

- a. iron. b. copper. c. plastic. d. glass.

(B) Write the scientific term :

1. A tool used to open and close an electric circuit. (.....)
2. Materials that do not allow heat to pass through easily. (.....)

4

Cairo Governorate

Heliopolis Educational Zone

1 (A) Complete the following :

1. When heating a substance, its molecules thermal energy and the motion of molecules

2. From the opposite figure :

The brain receives information from and sends a message to in your hand to move it.



3. From the opposite figure :

The energy changes
into energy, so it
attracts the iron nails.



(B) Give a reason for the following :

The electric wire is made of copper and is covered with plastic.

.....
.....

2 (A) Choose the correct answer :

Magnetic force is force(s), while gravitational force is
force only.

- a. pulling – pulling and repulsion b. pushing – pulling and repulsion
c. pulling and repulsion – pulling

(B) What is the function of ...?

1. Nucleus :
2. Mitochondria :
3. Endoplasmic reticulum :
4. Cell membrane :

(C) Define :

1. Magnetic substances :
2. Excretion process :

3 (A) Put (✓) or (X) :

Electric circuits in homes are connected in parallel.

()

(B) Compare between :

1.	<table><tr><th>Point of comparison</th><th>Expansion</th><th>Contraction</th></tr><tr><td>Intermolecular spaces :</td><td></td><td></td></tr></table>	Point of comparison	Expansion	Contraction	Intermolecular spaces :		
Point of comparison	Expansion	Contraction					
Intermolecular spaces :							
2.	<table><tr><th>Point of comparison</th><th>Kidneys</th><th>Stomach</th></tr><tr><td>Function :</td><td></td><td></td></tr></table>	Point of comparison	Kidneys	Stomach	Function :		
Point of comparison	Kidneys	Stomach					
Function :							

5**Cairo Governorate****Shubra Educational Zone****1 (A) Put (✓) or (X) :**

1. Bacteria and horse are considered multicellular organisms. ()
2. Musculoskeletal system consists of muscular system and digestive system. ()
3. Copper, rubber and iron are magnetic materials. ()

(B) What happens if ...?

You touch a hot cup of tea. (according to the transfer of heat)

.....

2 (A) Choose the correct answer :

The tube which transports urine from the bladder to outside is called

- a. vein. b. esophagus. c. urethra. d. artery.

(B) Write the scientific term :

1. A mixture of rocks, sand and water which becomes hard after it dries. (.....)
2. A liquid in your mouth contains an enzyme which helps in the digestion process. (.....)

3 (A) Cross the odd word :

Iron – Copper – Aluminum – Wood. (.....)

(B) Answer the following questions :**1. Give a reason for the following :**

You feel the heat of the Sun although there is a space between the Sun and Earth.

.....

2. Mention the importance of :

Cell wall :

6**Giza Governorate****6th October Educational Zone****1 (A) Put (✓) or (X) :**

1. Cell wall is made up of cellulose. ()
2. Blood cells and proteins can pass through the kidney's nephrons. ()
3. Electricity is a form of energy. ()

(B) What happens to ...?

The state of glass when it is heated at very high temperature.

.....

.....

2 (A) Choose the correct answer :

The organ which is responsible for secreting insulin hormone is the

- a. gall bladder. b. pancreas. c. liver. d. stomach.

(B) Give reasons for :

1. Some electric circuits contain resistors.
-

2. Engineers use expansion joints in the designing of bridges.
-

3 (A) Cross out the odd word :

Cobalt – Copper – Nickel – Iron.

(.....)

(B) Write the scientific term :

1. The way by which heat is transferred through solids only. (.....)
2. The component of the cell that allows the substances to enter and exit it. (.....)

1 (A) Choose the correct answer for each of the following statements :

1. Heat transfers by convection in
 a. iron. b. water. c. space.
2. The liver stores sugar and converts it into
 a. protein. b. glycogen. c. fat.
3. helps in collecting and transporting proteins to build and repair cells.
 a. Nucleus b. Endoplasmic reticulum c. Mitochondria

(B) State the importance of each of the following :

1. Mitochondria :
2. Kidneys :

2 (A) Write the scientific term :

The state at which the temperature of two bodies becomes equal, and the heat transfer stops among them. (.....)

(B) Give reasons for the following :

1. The heart muscle is considered as an involuntary muscle.

.....

2. Iron is attracted to the magnet, while rubber is not attracted to the magnet.

.....

3 (A) Complete the following sentence :

The feature in the cell membrane controls the movement of materials in and out of the cell.

(B) Answer the following :

1. Compare between thermal expansion and thermal contraction.

Point of comparison	Thermal expansion	Thermal contraction
Definition :		

2. What happens when a bulb in a parallel circuit burns out while it is connected with other bulbs?

.....

8**Giza Governorate****Oseem Educational Zone****1 (A) Choose the correct answer :**

1. All the following living organisms bodies are built up of many cells, except

- a. human. b. fish. c. plant. d. bacteria.

2. Diabetes disease occurs due to a disorder in an organ of the system.

- a. respiratory b. nervous c. endocrine d. urinary

3. The is used to slow the flow of an electric current in the electric circuit.

- a. switch b. battery c. resistor d. lamp

(B) Write the scientific term :

It is the increase in the size of a substance due to an increase in its temperature. (.....)

2 (A) Correct the underlined word :

Magnetism is a pulling or pushing force, while gravity is a pushing force only.
(.....)

(B) What happens ...?

1. If your body doesn't get rid of waste materials.
.....

2. To the mass of an amount of juice after freezing it.
.....

3 (A) Put (✓) or (X) :

Cell biologists are scientists who study cells. ()

(B) Give reasons for :

1. Blood cells and proteins can't pass through the kidney's nephrons.
.....

2. Expansion joints are used in the design of bridges.
.....

9**Giza Governorate****Omrana Educational Zone****1 (A) Choose the correct answer :**

1. All the following living organisms bodies are built up of many cells, except

a. human. b. fish. c. plant. d. bacteria.

2. The two kidneys play an important role in the filtration of inside your body.

a. water b. enzyme c. acid d. blood

3. The electric circuit contains a which is responsible for opening and closing the circuit.

a. battery b. switch c. lamp d. resistor

(B) What happens to ...?

The speed of molecules of a matter when it is heated.
.....

2 (A) Write the scientific term :

They are cell organelles that provide the cell with the needed energy. (.....)

(B) Put (✓) or (X) :

1. The heart muscle is considered a voluntary muscle. ()
2. Heat transfers from the hotter object to the cooler object. ()

3 (A) Give a reason for the following :

Plant cells can make photosynthesis process.

.....

(B) Cross out the odd word :

1. Iron – Copper – Nickel – Cobalt. (.....)
2. Conduction – Convection – Friction – Radiation. (.....)

10 Alexandria Governorate

East Educational Zone

1 (A) Complete the following :

1. The muscles are the muscles that move bones as they contract or relax.
2. The space of the cell is filled with a liquid called in which the other cell parts float.
3. The flow of electric charges through an electric conductor is called

(B) Give a reason for the following :

The thermal energy of water is more than the thermal energy of ice.

.....

2 (A) Put (✓) or (X) :

Nickel is a non-magnetic material. ()

(B) What happens when ...?

1. Touching a non insulated wire in a closed circuit with your hand.
-

2. Holding ice cube with your hand.
-

3 (A) Write the scientific term :

They are microscopic filters in the kidneys that remove harmful substances.

(.....)

(B) What is the importance of ...?

1. Selective permeability.

.....

2. Expansion joints in bridges.

.....

11**Alexandria Governorate****El-Montazah Educational Zone****1 (A) Choose the correct answer :**

- As a result of heat flow through metals, they
 a. expand. b. contract. c. get smaller. d. are not affected.
- Animal cells are similar to plant cells in the
 a. number of cells. b. presence of cell membrane.
 c. size of cells. d. shape of cells.
- The molecule is composed of very small particles called
 a. cells. b. atoms. c. mixtures. d. compounds.

(B) Give a reason for the following :

The handle of an electric iron is made of plastic.

.....

2 (A) Put (✓) or (X) :

One of the functions of the endoplasmic reticulum is helping in assembling proteins. ()

(B) Write the scientific term :

- The state of matter which changes into liquid by heating. (.....)
- They are muscles that you can control their movement. (.....)

3 (A) Cross out the odd word :

Human – Plant – Fish – Bacteria. (.....)

(B) Complete the following statements :

- Heat is transferred by in solid only.
- Cell biologists use to magnify very small cells.

12**Alexandria Governorate****Science Inspectorate****1 (A) Complete the following sentences :**

1. Some insects have a hard back called
2. The cells in the human body that can store and release energy quickly are
3. The hormone responsible for regulating the level of sugar in the blood is the hormone.

(B) Give a reason for the following :

Heat is not transferred between two bodies in contact and have the same temperature.

.....

2 (A) Put (✓) or (x) :

The gall bladder works on the chemical breakdown of food. ()

(B) 1. What happens if ...?

A metal nail is placed in a closed electrical circuit containing a lamp.

.....

2. Cross out the odd word and give a reason :

Steam – Snow – Rocks – Glass.

- a. Odd word :
- b. Reason :

3 (A) Choose the correct answer :

Animal cells do not contain

- a. nucleus. b. cytoplasm. c. golgi apparatus. d. large vacuole.

(B) Write the scientific term :

1. The pattern formed by iron filings around a magnet. (.....)
2. The method of transferring heat from the Sun to the Earth. (.....)

13**Sharkia Governorate****Science Inspectorate****1 (A) Choose the correct answer :**

1. system secretes hormones to control the body temperature and blood pressure.
- a. Digestive b. Endocrine c. Respiratory d. Urinary

2. By increasing the distance between objects, the force between them decreases.

- a. gravity b. kinetic c. friction d. pushing

3. The organelles which provide the cell with needed energy are.....

- a. nucleus. b. golgi apparatus. c. mitochondria. d. cell membrane.

(B) What is meant by ...?

Thermal energy :

2 (A) Write the scientific term :

A component of the electric circuit that limits the flow of electric current.

(.....)

(B) What happen if ...?

1. There is much water in the cell.

.....

2. You touch a hot metal spoon that is placed in a hot cup of tea.

.....

3 (A) Put (✓) or (X) :

Plastic is better than wood to make the handle of cooking pots.

()

(B) Give reasons for :

1. Cardiac muscle is considered as an involuntary muscle.

.....

2. Two kidneys contain nephrons.

.....

14 Menoufia Governorate

Tala Educational Zone

1 (A) Complete the following sentences :

1. The heat of the Sun reaches Earth by.....

2. When the toy car is at the top of the slide, it stores energy.

3. Stomach is composed of a group of different

(B) Give reasons for :

1. Cobalt and nickel are considered as magnetic materials.

.....

2. Cooking pots are made of aluminum.

2 (A) Put (✓) or (X) :

1. Involuntary muscles move automatically, so their movement can't be controlled. ()
2. The body organs that responsible for the excretion process are skin and organs of respiratory system only. ()
3. Digestive system and muscular system work together to allow the body movement. ()

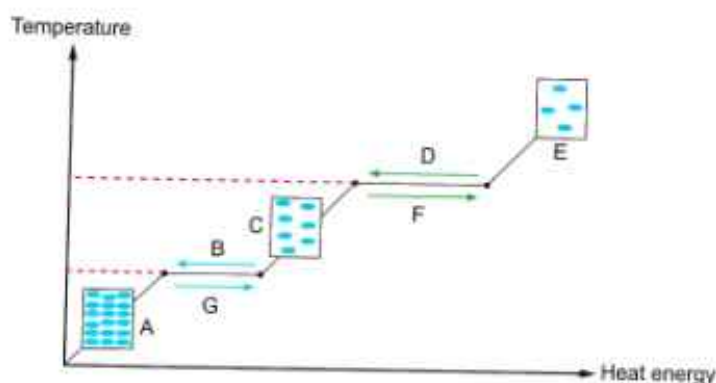
(B) Mention the importance of :

1. Generator :
2. Endoplasmic reticulum :

3 (A) Choose the correct answer :

1. Which of the following may not be a source of thermal energy?
 a. Electric iron. b. The Sun. c. The moon. d. Electric heater.
2. A cell that contains a cell wall and chloroplast is
 a. animal cell. b. plant cell. c. muscle cell. d. nerve cell.
3. The melting point of ice is °C
 a. 0 b. 100 c. 50 d. 30

(B) Look at the following figure which represents the change of state of matter then answer :



1. Matter (A) is in a state, while matter (.....) is in a gas state.
2. Define process (B) :

15 Gharbia Governorate**Gharbia Educational Zone****1 (A) Choose the correct answer :**

- Growth of a living organism results due to increasing the of cells.
a. length b. size c. number d. mass
- Your leg moves due to contraction and relaxation of that are connected to the bones of leg.
a. hairs b. toes c. skin d. muscles
- Magnets can be made up of
a. copper. b. glass. c. iron. d. plastic.

(B) Give a reason for the following :

The handle of cooking pot is made up of plastic or wood.

.....

2 (A) Put (✓) or (X) :

People whose kidneys are not working properly must use other devices to filter their blood from wastes. ()

(B) Answer the following questions :

- Give a reason for :** Engineers use expansion joints in the designing of bridges.
.....
- Mention** the two ways of electric circuit connections.
a.
b.

3 (A) Write the scientific term of the following :

A hormone that regulates the level of sugar in human blood. (.....)

(B) Answer the following questions :**1. What happens if ...?**

There are no chloroplasts in plant cells.

.....

2. Heat transfers from one place to another by three ways Mention two of them.

.....

16**Dakahlia Governorate****Science Inspectorate****1 (A) Choose the correct answer :**

- The skeletal system takes nutrients from the system for growth of muscles.
a. excretory b. digestive c. nervous d. respiratory
- Onion cells differ from human cells in the presence of in its structure.
a. cell wall b. nucleus c. mitochondria d. cytoplasm
- All the following are magnetic materials, except
a. nickel. b. cobalt. c. iron. d. copper.

(B) Give reasons for :

- The size of a balloon decreases if it is subjected to cold weather?
.....

- Cooking pots are made up of aluminum, and their handles are made up of plastic.
.....

2 (A) Complete the following sentence :

Some substances can pass through nephrons such as , while other substances can not pass through nephrons such as

(B) Write the scientific term :

- The way by which the heat transfers through solid materials only. (.....)
- It occurs when heat transfer stops between two objects reaching the same temperature. (.....)
- The area around the magnet in which its force appears. (.....)
- It is the system that secretes hormones to control the body. (.....)

3 (A) Cross out the odd word :

Human – Fish – Plant – Bacteria.

(.....)

(B) Answer the following questions :**1. What happen ...?**

- When you hold a cup of hot tea in your hand.
.....

- To the mass of a piece of butter after melting.
.....

2. From the opposite figure. Answer :

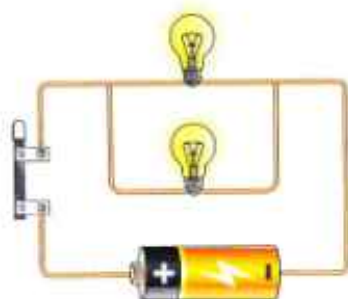


Figure (A)

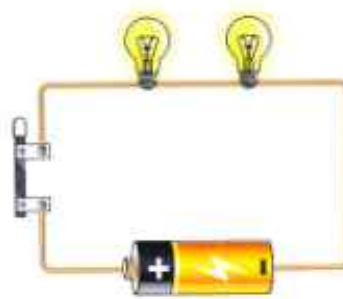


Figure (B)

- a. Which figure is a series circuit ?
- b. Which figure is a parallel circuit ?

17

Ismailia Governorate

Science Inspectorate

1 (A) Choose the correct answer :

- The organelle that provides the cell with its needed energy is
a. mitochondria. b. nucleus. c. cytoplasm. d. cell membrane.
- The device that is used to slow the flow of an electric current in an electric circuit is
a. battery. b. switch. c. electric resistor. d. electric lamp.
- All of the following help in the excretion process, except
a. skin. b. urinary system. c. lungs. d. digestive system.

(B) Give a reason for the following :

Glass and wood are bad conductors of heat.

.....

2 (A) Put (✓) or (X) :

Copper and aluminum are magnetic materials.

()

(B) Answer the following questions :

- What is the importance of a battery in the electric circuit.

.....

- Mention the method of heat transfer through gases and liquids.

.....

3 (A) Complete the following statement :

The Earth's gravity is affected by two factors which are and

(B) 1. What happens to ... ?

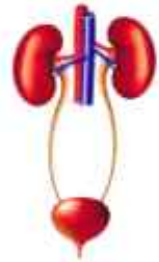
The space between molecules of matter if we heat it.

.....

2. Look at the opposite figure, then answer :

What is the function of this system ?

.....

**18****Suez Governorate****Science Inspectorate****1 (A) Choose the correct answer :**

1. The cellulose forms the of the plant cell.

- a. cell membrane b. chloroplasts c. cell wall d. sap vacuole

2. Muscles of the stomach and muscles of the heart can be controlled by system.

- a. digestive b. circulatory c. nervous d. respiratory

3. are used to spin the magnet in the generator to produce electricity.

- a. Water and winds b. Light and sound
c. Electricity and sound d. Sound and heat

(B) What happens if ... ?

You hold a piece of frozen chocolate in your hand. (according to transfer of heat)

.....

2 (A) Put (✓) or (x) :

Heart muscle is considered as an involuntary muscle. ()

(B) Complete the following sentences :

1. is used to slow the flow of an electric current in the electric circuit.
2. Steel is made of a mixture of and other elements.

3 (A) Cross out the odd word :

Urine – Oxygen gas – Carbon dioxide – Sweat. (.....)

(B) Write the scientific term :

1. It is a gelatinous liquid which is found inside the cell. (.....)
2. The mass of a substance does not change when this substance changes from one state into another. (.....)

19**Port Said Governorate****Science Inspectorate****1 (A) Choose the correct answer :**

1. The allows water to pass to and from the cell.
a. nucleus b. cell membrane c. cell wall d. cytoplasm
2. The surrounds plant cells to give them a definite shape.
a. cell wall b. chloroplast c. mitochondria d. nucleus
3. is from electrical insulators.
a. Iron b. Aluminum c. Wood d. Copper

(B) Mention the type of heat transfer :

Transfer of heat due to the movement of a liquid or gas.

.....

2 (A) Put (✓) or (x) :

When a light bulb connected in series burns out, all the other light bulbs are turned off. ()

(B) Give reasons for :

1. The human body is considered as an electric conductor.
.....
2. All forms of matter contains thermal energy.
.....

3 (A) Write the scientific term :

The building unit of living organisms. (.....)

(B) What happens if ...?

1. The distance between an object and Earth's center increases.
(according to the force of gravity)
.....
2. You touch a hot cup of tea. (according to the transfer of heat)
.....

1 (A) Choose the correct answer :

- The organelle which helps the plant cell to absorb the energy of sunlight to make the photosynthesis process is
a. sap vacuole.
b. chloroplast.
c. golgi apparatus.
d. endoplasmic reticulum.
- The internal switch in a can be used in the refrigerator to adjust its temperature.
a. battery
b. thermostat
c. light bulb
d. wall socket
- As a result of heat flow through metals, they
a. expand.
b. contract.
c. get smaller.
d. are not affected.

(B) What happens to ...?

The lungs, when the diaphragm muscle contracts.

2 (A) Correct the underlined words :

Decreasing the mass of a moving object on a ramp causes the increase of its speed.

(.....)

(B) Give reasons for :

1. Electric wires are wrapped with plastic.

2. The liver and muscles convert the stored glycogen into glucose sugar.

3 (A) Put (✓) or (x) :

Bacteria and horse are considered as multicellular organisms.

()

(B) Compare between :

1. Figure (A) and (B) according to the type of connection.

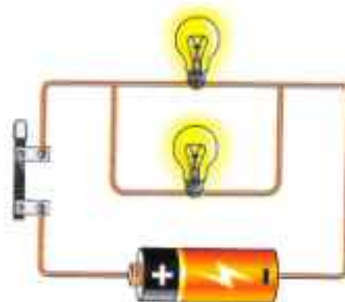


Figure (A)

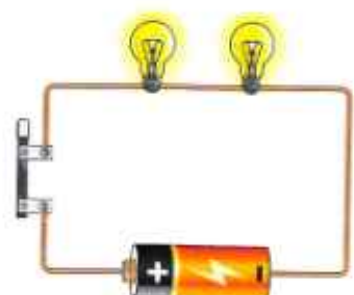


Figure (B)

2. Magnetic materials and non-magnetic materials.

.....

.....

21 Kafr El-Sheikh Governorate

Science Inspectorate

1 (A) Choose the correct answer :

- The volume of alcohol inside a thermometer by heating.
 - decreases
 - contracts
 - expands
 - doesn't change
- is considered as an electric conductor that can be attracted to the magnet.
 - Copper
 - Aluminum
 - Rubber
 - Iron
- All the following are excretory materials in the human body, except
 - carbon dioxide gas.
 - glucose.
 - urine.
 - sweat.

(B) What happens to ...?

The mass of a piece of chocolate after melting it.

.....

.....

2 (A) Put (✓) or (X) :

Mercury changes from a gas into a liquid at 357 °C. ()

(B) Write the scientific term of each of the following :

- The cell organelles that provide the cell with the needed energy. (.....)
- They are the muscles that you can control their movement. (.....)

3 (A) Cross out the odd word :

Dogs – Birds – Insects – Horses. (.....)

(B) Complete the following sentences :

- Heat transfers by through gases and space.
- The electric devices in houses are connected in a circuit.

22**Fayoum Governorate****Science Inspectorate****1 (A) Choose the correct answer :**

- The tool that opens and closes the electric circuit is called
a. wires. b. switch. c. light bulb. d. battery.
- The kidney is the main organ of the system.
a. nervous b. urinary c. respiratory d. digestive
- The surrounds each cell, protects it and regulates what can enter it.
a. cytoplasm b. plasma membrane
c. cell wall d. nucleus

(B) Complete the following sentence :

The matter in the liquid state has volume and shape.

2 (A) Write what the following statement refers to :

The type of electric circuits that are found in houses. (.....)

(B) Give reasons for :

- You feel the heat of the Sun although there is a space between the Sun and Earth.
.....
.....

- The human body is considered as an electric conductor.
.....
.....

3 (A) Put (✓) or (X) :

The magnet attracts all materials. ()

(B) What happens if ... ?

- Object (A), which its temperature degree is 80°C touches object (B) which its temperature degree is 40°C .
.....
.....

- The distance between an object and Earth's center increases.
.....
.....

23

Minia Governorate

Minia Educational Zone

1 (A) Choose the correct answer :

- One of the materials that is considered as electric insulators is
 a. rubber. b. copper. c. aluminum.
- The control center in the cell that responsible for cell division, is
 a. mitochondria. b. nucleus. c. cytoplasm.
- One of the involuntary muscles is
 a. leg muscle. b. heart muscle. c. neck muscle.

(B) Mention the function of the following :

Thermometer :

2 (A) Correct the underlined word :We get rid of sweat through the lungs. (.....)**(B) Give reasons for the following :**

- Parallel connection way is preferred in homes.

.....

.....

- Metals are used in making cooking pots.

.....

.....

3 (A) Complete the following sentences :

The in the urinary system, filters the blood.

(B) What happens in the following cases ...?

- Absence of chloroplasts in plant cells.

.....

.....

- Absence of tendons and ligaments in human.

.....

.....

24**Sohag Governorate****Science Inspectorate****1 (A) Choose the correct answer :**

- Nephrons are
 - vessels that hold urine before it exits the body.
 - the place where urine exits the body.
 - microscopic units that filter blood and remove wastes from the body.
- One of the components of the cell that is similar to an electrical power station is
 - mitochondria.
 - cytoplasm.
 - chloroplast.
- The tool that is used to open and close the electric circuit is called
 - wire.
 - switch.
 - battery.

(B) Give a reason for the following :

Cookware is made of aluminum.

2 (A) Put (✓) or (x) :

Tissue is made up of a group of organs. ()

(B) Write the scientific term of each of the following :

- The measuring device of temperature. (.....)
- The system that secretes hormones stimulating the rest of the body systems to respond. (.....)

3 (A) Complete the following sentence :

The pattern that the iron filings make near the magnet shows its

(B) What happens ... ?

- When contraction of the front muscle in the upper arm and relaxation of the back muscle occurs.

- To an ice cube, when we heat it. (according to the mass of ice cube).

25**Matrouh Governorate****Matrouh Educational Zone****1 (A) Put (✓) or (X) :**

1. In animal cell, nucleus is responsible for cell division to form new cells. ()
2. Heart muscle is considered as voluntary muscle. ()
3. Both copper and aluminum are attracted to the magnet. ()

(B) What is meant by ...?

Freezing process :

2 (A) Choose the correct answer :

The electric generator converts energy to energy.

- | | |
|-----------------------|-----------------------|
| a. chemical – thermal | b. thermal – sound |
| c. sound – kinetic | d. kinetic – electric |

(B) Complete the following sentences :

1. Heat transfers through solid materials by, but it transfers through space by
2. Endocrine system consists of that secrete to control the human body activities.

3 (A) Write the scientific term :

The type of electric circuit in which all components are connected in different loops. (.....)

(B) Give reasons for :

1. You feel warm when you touch a hot cup of tea.

.....

.....

2. Bacteria is considered from unicellular organisms.

.....

.....

Final Examinations of Some Governorates

Cairo Governorate

1 Eastern Nasr City Educational Zone

- 1 (A) 1. (✓) 2. (✓) 3. (✗)

(B) 1. Because it is an involuntary muscle.
2. Because it is attracted to the magnet.

- 2 (A) Paper (all items are components of an electric circuit except paper).

(B) 1. Thermometer 2. The cell
3. hormones. 4. parallel

- 3 (A) c

(B) 1. Switch.
2. Nucleus.
3. Expansion.
4. The circulatory system.

2 Central Cairo Educational Zone

- 1 (A) 1. a 2. c 3. b

(B) Train accidents occur as a result of bending of tracks in hot weather.

- 2 (A) (✗)

(B) 1. Because it filters the blood, and remove waste materials from the body.
2. Heat transfers from the cup to the hand by conduction.

- 3 (A) cells.

(B) 1. The other light bulbs will turn off.
2. They will move faster.

3 Mokattam Educational Zone

- 1 (A) 1. (✗) 2. (✓) 3. (✗)

(B) Because heat transfers from the hot cup to the hand by conduction.

- 2 (A) mitochondria.

(B) 1. system 2. convection

- 3 (A) a

(B) 1. Switch.
2. Thermal insulators.

4 Heliopolis Educational Zone

- 1 (A) 1. gain – becomes faster.
-
2. the hand – the muscles
-
3. electric – magnetic

(B) Because copper is an electric conductor that allows electric current to flow through, while plastic is bad conductor of electricity to protect people from electric shock.

- 2 (A) c

(B) 1. It controls formation of proteins and cell division.
2. They provide the cell with the energy it needs by converting sugar inside the cell into energy through cellular respiration.

3. It helps in assembling and transporting proteins inside the cell to build and repair the cell.

4. It protects the cell, and controls the substances that can enter or leave the cell through the selective permeability feature.

(C) 1. They are substances that are attracted to the magnet.

2. It is the process through which the body gets rid of waste materials produced from cells.

3 (A) (✓)

(B) 1.

Point of comparison	Expansion	Contraction
Intermolecular spaces:	Increase.	Decrease.

2.

Point of comparison	Kidneys	Stomach
Function:	Cleaning and filtering the blood.	Breaking down of food.

5 Shubra Educational Zone

1 (A) 1. (✗) 2. (✗) 3. (✗)

(B) Heat transfers from the hot cup to the hand.

2 (A) c

(B) 1. Concrete. 2. Saliva.

3 (A) Wood (all items are electric conductors except wood is an electric insulator).

(B) 1. Because the heat transfers through the space by radiation.

2. It surrounds the plant cell to give it a definite shape.

Giza Governorate

6 6th October Educational Zone

1 (A) 1. (✓) 2. (✗) 3. (✓)

(B) It will change from solid state into liquid state.

2 (A) b

(B) 1. To slow the flow of electrons through an electric circuit to avoid the damage of its other components.

2. To keep bridges safe from buckling when they expand at high temperatures.

3 (A) Copper (all items are magnetic materials except copper is a non-magnetic material).

(B) 1. Conduction.

2. Cell membrane.

7 South Giza Educational Zone

- 1 (A) 1. b 2. b 3. b
 (B) 1. They provide the cell with the energy it needs by converting sugar inside the cell into energy through cellular respiration.
 2. They clean and filter the blood.

- 2 (A) Thermal equilibrium.
 (B) 1. Because it moves automatically and we can't control its movement.
 2. Because iron is a magnetic material, but rubber is a non-magnetic material.

- 3 (A) selective permeability
 (B) 1.

Point of comparison	Thermal expansion	Thermal contraction
Definition:	Increasing the volume of the matter due to increasing of its temperature.	Decreasing the volume of the matter due to decreasing of its temperature.

2. The other light bulbs will remain lit.

8 Oseem Educational Zone

- 1 (A) 1. d 2. c 3. c
 (B) Expansion.

- 2 (A) pulling
 (B) 1. The body will get sick.
 2. The mass will not change.

- 3 (A) (✓)
 (B) 1. Because they are too large to pass through the nephrons.
 2. To keep bridges safe from buckling when they expand at high temperatures.

9 Omrania Educational Zone

- 1 (A) 1. d 2. d 3. b
 (B) The speed of molecules will increase.

- 2 (A) Mitochondria.
 (B) 1. (✗) 2. (✓)

- 3 (A) Due to presence of chloroplasts in the plant cells.
 (B) 1. Copper (all items are magnetic materials except copper is a non-magnetic material).
 2. Friction (all items are ways of heat transfer except friction).

Alexandria Governorate

10 East Educational Zone

- 1 (A) 1. skeletal 2. cytoplasm
 3. electric current.
 (B) Because the thermal energy of a substance is the total sum of the kinetic energy of its molecules and atoms, that is greater in water than in ice.

- 2 (A) (✗)
 (B) 1. The electric current will flow through the body causing electric shock.
 2. Heat transfers from the hand to the ice.

- 3 (A) Nephrons.
 (B) 1. Controlling the substances that can enter or leave the cell.
 2. Keep the bridges safe from buckling when they expand at high temperatures.

11 El-Montazah Educational Zone

- 1 (A) 1. a 2. b 3. b
 (B) Because plastic is a thermal insulator that resists heat to transfer through it.

- 2 (A) (✓)
 (B) 1. Solid state.
 2. Voluntary muscles.

- 3 (A) Bacteria (all items are multicellular organisms except bacteria are unicellular organisms).
 (B) 1. conduction
 2. microscopes

12 Science Inspectorate

- 1 (A) 1. exoskeleton.
 2. muscle cells.
 3. insulin

- (B) Because the two bodies are at thermal equilibrium.

- 2 (A) (✓)
 (B) 1. The lamp will light up.
 2. a. Steam.
 b. All items are examples of solid matter except steam is an example of gas matter.

- 3 (A) d
 (B) 1. Magnetic field.
 2. Radiation.

Sharkia Governorate

13 Science Inspectorate

- 1 (A) 1. b 2. a 3. c
 (B) It is the total sum of kinetic energy of molecules and atoms of a substance.

- 2 (A) Electric resistor.
 (B) 1. The cell will swell until it bursts.
 2. Heat transfers from the spoon to the hand.

- 3 (A) (✓)
 (B) 1. Because it moves automatically and we can't control its movement.
 2. Because they filter the blood and remove harmful substances from the body.

Menofia Governorate**14 Tala Educational Zone**

- 1 (A) 1. radiation. 2. potential
3. tissues.
(B) 1. Because they are attracted to the magnet.
2. Because it is good conductor of heat.

- 2 (A) 1. (✓) 2. (✗) 3. (✗)
(B) 1. It changes mechanical energy into electrical energy.
2. It helps in assembling and transporting proteins inside the cell to build and repair the cell.

- 3 (A) 1. c 2. b 3. a
(B) 1. solid – E
2. It is the change of state of matter from liquid state to solid state.

Gharbia Governorate**15 Gharbia Educational Zone**

- 1 (A) 1. c 2. d 3. c
(B) Because they are bad conductors of heat.

- 2 (A) (✓)
(B) 1. To keep the bridges safe from buckling when they expand at high temperatures.

2. a. Series connection.
b. Parallel connection.

- 3 (A) Insulin hormone.
(B) 1. Plant cells cannot make photosynthesis process.
2. Conduction – Convection

Dakahlia Governorate**16 Science Inspectorate**

- 1 (A) 1. b 2. a 3. d
(B) 1. Because the air inside the balloon contracts by cooling.
2. Because aluminum is a thermal conductor that allows heat to flow through, while plastic is a thermal insulator that doesn't allow heat to flow through.

- 2 (A) urea – protein.
(B) 1. Conduction.
2. Thermal equilibrium.
3. Magnetic field.
4. Endocrine system.

- 3 (A) Bacteria (all items are multicellular organisms except bacteria are unicellular organisms).
(B) 1. a. Heat transfers from the cup to the hand.
b. The mass will not change.
2. a. Figure (B)
b. Figure (A)

Ismailia Governorate**17 Science Inspectorate****1** (A) 1. a 2. c 3. d

(B) Because they don't allow heat to flow through.

2 (A) (✗)(B) 1. It is a source of electricity.
2. Convection.**3** (A) mass – distance.(B) 1. The space will increase.
2. It removes waste materials from the blood in the form of urine.**Suez Governorate****18 Science Inspectorate****1** (A) 1. c 2. c 3. a

(B) Heat transfers from the hand to the chocolate.

2 (A) (✓)(B) 1. Electric resistor
2. iron**3** (A) Oxygen gas (all items are waste materials except oxygen is not a waste material).(B) 1. Cytoplasm.
2. Law of conservation of mass.**Port Said Governorate****19 Science Inspectorate****1** (A) 1. b 2. a 3. c

(B) Convection.

2 (A) (✓)(B) 1. Because the human body contains a lot of water which is good conductor of electricity.
2. Because matter consists of molecules and atoms, and the thermal energy of matter is the total sum of kinetic energy of molecules and atoms.**3** (A) The cell.(B) 1. The gravity will decrease.
2. Heat transfers from the hot cup to the hand.**Damietta Governorate****20 Science Inspectorate****1** (A) 1. b 2. b 3. a

(B) The lungs take in the air rich in oxygen gas.

2 (A) Increasing(B) 1. Because plastic is an electric insulator that prevent electricity from moving from the metal wires into our hands.
2. To provide the body with its needed energy.

- 3 (A) (✖)
(B) 1. Figure (A) shows parallel connection, figure (B) shows series connection.
2.

Magnetic materials	Non-magnetic materials
They are materials that are attracted to the magnet.	They are materials that are not attracted to the magnet.
Ex: iron – nickel – cobalt.	Ex: wood – plastic – paper.

Kafr El-Sheikh Governorate

21 Science Inspectorate

- 1 (A) 1. c 2. d 3. b
(B) The mass will not change.

- 2 (A) (✖)
(B) 1. Mitochondria.
2. Voluntary muscles.

- 3 (A) Insects (all items are living organisms that have bones except insects are living organisms that don't have bones).
(B) 1. radiation 2. parallel

Fayoum Governorate

22 Science Inspectorate

- 1 (A) 1. b 2. b 3. b
(B) fixed – variable

- 2 (A) Parallel circuits.
(B) 1. Because the heat transfers through space by radiation.
2. Because the human body contains a lot of water which is good conductor of electricity.

- 3 (A) (✖)
(B) 1. Heat transfers from the hotter object (A) to the cooler object (B) until they reach the thermal equilibrium.
2. The gravitational force decreases.

Minia Governorate

23 Minia Educational Zone

- 1 (A) 1. a 2. b 3. b
(B) Measuring the temperature.

- 2 (A) the skin
(B) 1. Because in parallel connection, if we turn off one of the devices, the other devices will continue to work.
2. Because metals are good conductors of heat.

- 3 (A) kidney
(B) 1. Plant cells can't make photosynthesis process.
2. The body movement will be difficult.

Sohag Governorate**24 Science Inspectorate**

- 1** (A) 1. c 2. a 3. b
 (B) Because aluminum is good conductor of heat.
-
- 2** (A) (✗)
 (B) 1. Thermometer.
 2. The endocrine system.
-
- 3** (A) magnetic field.
 (B) 1. The forearm moves up towards the shoulder.
 2. The mass will not change.

Matrouh Governorate**25 Matrouh Educational Zone**

- 1** (A) 1. (✓) 2. (✗) 3. (✗)
 (B) It is the change of state of matter from liquid state to solid state.
-
- 2** (A) d
 (B) 1. conduction – radiation.
 2. glands – hormones
-
- 3** (A) Parallel connection.
 (B) 1. Because the temperature of the cup is higher than that of your hand so, the heat transfers from the cup to your hand by conduction.
 2. Because their bodies consist of one cell only.

كيفية طباعة صفحات معينة من ملف معين مثلا ازاي نطبع الصفحات من صفحة 4 الى صفحة 9



حمل الآن

مجاناً وحصرياً

امتحانات رقم (2)

الترم الاول



1 A) Correct the underlined word:

- The plant cell is characterized by the presence of plasma membrane.

(.....)

B) What happens ...?

- If the mitochondria don't function properly.

.....

- If a body has unneeded glucose that is not used for energy immediately.

.....

- If there are no spaces between railway tracks.

.....

- When two objects with same temperature touch each other.

.....

2 A) Choose the correct answer:

- Heat is transferred by radiation through
a) solids only b) solids and liquids c) liquid only d) gases and space

B) First: Mention ...:

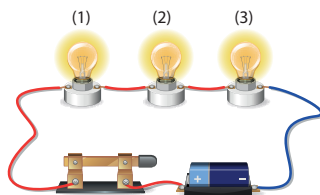
- The working idea of generators.

.....

- The importance of the internal switch in a thermostat.

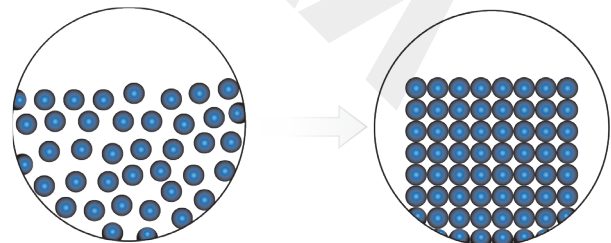
.....

Second: Look at the following figures, then answer:



- What happens if bulb no. (2) is disconnected in this circuit?

.....



- This figure represents the process.
 - The kinetic energy of molecules, and the spaces between molecules as well.

3 A) Complete the following sentences:

- 1 The cell wall is made of
- 2 During sweating, waste products leave the body through the

B) Give a reason for:

- 1 The nucleus has an important role in the cell.
.....
- 2 The galvanometer needle moves when the magnet is pushed into the coil.
.....
- 3 The mass of the popped corn is less than the mass of the popcorn grains after heating.
.....

4 A) Write the scientific term:

- 1 A complete, closed path where electricity can flow through. (.....)
- 2 The measure of the average kinetic energy of molecules and atoms of a substance.
(.....)

B) Answer the following questions:

- 1 During dangerous situations, the brain sends signals to the heart. Explain why.
.....
- 2 What is the role of the circulatory system during a fight-or-flight response?
.....
- 3 New materials can be created in several ways. How is glass made?
.....

1 A) Correct the underlined word:

- The speed of heat transfer decreases when the surface area of contact between two objects increases. (.....)

B) First: What is meant by ...?

- 1 Cellular respiration.

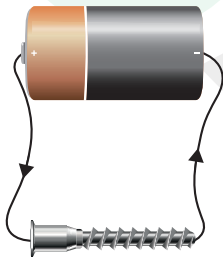
.....

.....

- 2 Relaxation process.

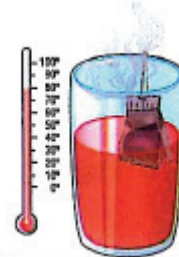
.....

Second: Look at the following figures, then answer:



- 1 How can the magnetic field produced by this device be increased?

.....



- 2 What happens if a thermometer is placed in this cup?

.....

2 A) Cross out the odd word:

- Nickel – Copper – Steel – Iron.

(Copper)

B) First: Answer the following questions:

- 1 Animal cells do not have a cell wall to provide a fixed shape—so how do they keep their shape?

.....

.....

- 2 How is food chemically digested in the mouth?

.....

.....

Second: Mention ...:

1 The function of resistors.

.....

2 Two properties of heat.

.....

.....

3 A) Complete the following sentences:

1 and are responsible for transporting different materials in the cell.

2 The controls the body responses when it faces danger.

B) What happens ...?

1 When the distance between the Earth and an object is doubled. (In terms of gravity)

.....

2 When the thermal energy is removed from water vapor.
(In terms of the process, and the forces between particles)

.....

3 If the chloroplasts are removed from a plant cell.

.....

4 A) Write the scientific term:

1 The temperature at which a liquid changes into a gas. (.....)

2 A group of organs that work together to perform a specific function for the body.
(.....)

B) Give a reason for:

1 The muscle cell is a long fiber.

.....

2 Touching a non-insulated wire causes an electric shock and may kill people.

.....

.....

3 At the same room temperature, a metal doorknob may feel cooler than a wooden door.

.....

.....

1 A) Complete the following sentences:

- Heat is considered a form of which is measured in

B) First: What happens ...?

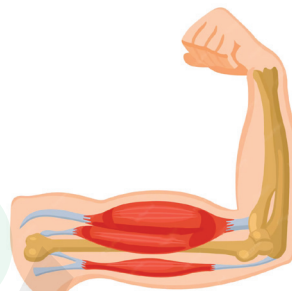
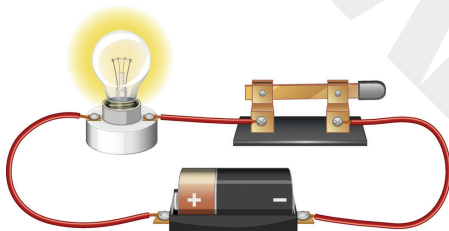
- 1 If much water enters the cell.

-
-

- 2 If nephrons are blocked or damaged.

-
-

Second: Look at the following figures, then answer:



- 1 What will happen if a piece of rubber is placed in this electric circuit? And why?

-
-
-

- 2 Explain how the forearm moves as shown in the figure.

-
-
-

2 A) Correct the underlined word:

- The esophagus muscle helps lung to take in and move out gases. (.....)

B) What is meant by ...?

- 1 Magnetic field.

-

- 2 Thermal contraction.

-

Second: Compare between ...:

1

P.O.C	Solid state	Gaseous state
Ability to compress		
Thermal energy of particles		

2

P.O.C	Petroleum oil	Plastic
State of matter		
Ability to burn		

3 A) Put (✓) or (X):

1 Tissues are a group of similar cells. ()

2 Like poles attract, while unlike poles repel. ()

B) Give a reason for:

1 Human is a multicellular organism.

•

2 The respiratory system and the circulatory system work together during the fight-or-flight response.

•

•

3 The final temperature after mixing hot and cold water is slightly less than the average temperature.

•

•

4 A) Choose the correct answer:

- 1 One of the components of the cell that packs and transports materials between the cells is
a) vacuole b) Golgi apparatus c) mitochondria d) cytoplasm
- 2 What happens when a hot metal spoon is placed into a cup of cold water?
a) Heat flows from water to the spoon.
b) Heat flows from the spoon to water.
c) Both the spoon and water stay at the same temperatures.
d) The spoon becomes colder than water.

B) Answer the following:

- 1 In homes, electric circuits are not connected in series. Explain why.
•
•
- 2 What are the similarities between gravity and magnetism?
•
•
- 3 What is the idea of working of a thermometer?
•
•

1 A) Put (✓) or (X):

- Cell biologists are scientists who study cell. ()

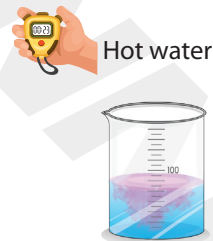
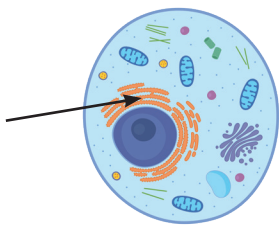
B) What happens ...?

- 1 To the plant cell if its cell wall is not present.
.....
- 2 When the diaphragm muscle contracts.
.....
- 3 To the voltage "amount of generated electric current" when the number of coil loops increases.
.....
- 4 If the handles of cooking pans are made of iron.
.....

2 A) Correct the underlined word:

- When a 10-gram chocolate cube melts, the mass of the molten chocolate will be 5 grams. (.....)

B) First: Look at the following figures, then answer:



- 1 What happens if the organelle shown in this figure will not function properly?
.....
.....
.....
.....
.....
- 2 When food coloring is added to this beaker, its particles spread very fast. Explain why.
.....
.....
.....
.....
.....

Second: Mention ...:

1 The function of artificial pacemaker.

.....

2 The way of heat transfer that occurs when you touch a hot metal spoon.

.....

3 A) Complete the following sentences:

1 A muscle can only exert force when it

2 and have definite volumes.

B) Give a reason for:

1 The heart muscle is considered an involuntary muscle.

.....

2 The switch is an important component of the circuit.

.....

3 Water loses thermal energy when it is cooled.

.....

.....

4 A) Choose the correct answer:

1 All of the following show the relation between electricity and magnetism, except

a) electric motor

b) electric generator

c) wind turbines

d) electric transformer

2 When the thermal energy of water vapor increases,

a) it turns to water

b) the kinetic energy of its particles decreases

c) its particles move slower

d) its particles move faster

B) Answer the following questions:

1 What is the importance of microscopes?

-
-

2 Define urea.

-

3 Compare between thermal conductors and thermal insulators in terms of their ability to conduct heat.

Thermal conductors	Thermal insulators
.....	

1 A) Write the scientific term:

- It is a gelatinous liquid that surrounds all the cell organelles.

(Cytoplasm)

B) Give a reason for:

- The kidney is considered the main organ in the urinary system.

-
-

- All objects on or near the Earth are pulled towards its center.

-
-

- When oil is poured into a container, it takes its shape.

-
-

- You feel the heat of the Sun although there is a space between the Sun and Earth.

-
-

2 A) Choose the correct answer:

- All of the following are organs of the musculoskeletal system, except
 a) bones b) cartilage c) tendons d) esophagus

B) First: Mention ...:

- The factors that increase the electric current generated by magnetism.

-
-

- Three properties of smart clothes.

-
-
-

Second: What happens ...?

1 If the pancreas and the gallbladder do not secrete their enzymes and juices in the small intestine.

•

2 If the pancreas doesn't make its function properly.

•

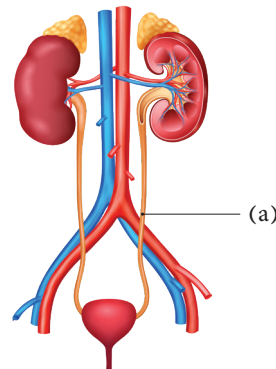
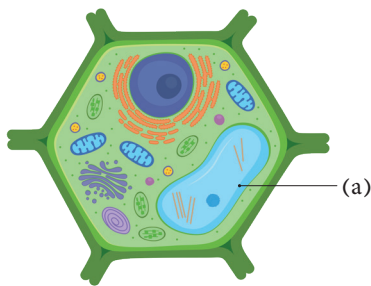
3 A) Complete the following sentences:

1 are the food factories in the plant cell.

2 In parallel connection, if one bulb blows out, the rest of the bulbs

B) Answer the following questions:

• Look at the following figures, then answer:



1 What happens if organelle (a) is not present?

•
.....
.....

2 If organ (a) is removed, what will happen?

•
.....
.....

3 Heat is transferred through water by convection when it is heated. Explain.

•
•
•

4 A) Correct the underlined words:

1 Absorption of digested food begins in the stomach. (.....)

2 Particles of gases have the least thermal energy as they vibrate in their position. (.....)

B) What is meant by ...?

1 Selective permeability.

•

2 Magnetism.

•

3 Thermal energy.

•

1 A) Correct the underlined word:

- The plant cell is characterized by the presence of plasma membrane.

(cell wall/chloroplast)

B) What happens ...?

- If the mitochondria don't function properly.
 - The cell will not be supplied with the energy it needs through the cellular respiration.
- If a body has unneeded glucose that is not used for energy immediately.
 - The liver and muscles store the excess glucose sugar and convert it into glycogen.
- If there are no spaces between railway tracks.
 - The railway tracks will expand and bend, and train accidents might occur.
- When two objects with same temperature touch each other.
 - No heat transfer occurs.

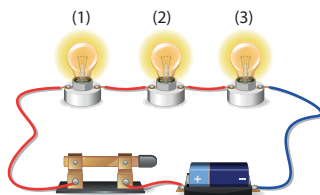
2 A) Choose the correct answer:

- Heat is transferred by radiation through
 - solids only
 - solids and liquids
 - liquid only
 - gases and space

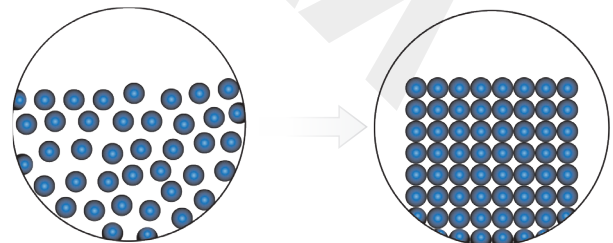
B) First: Mention ...:

- The working idea of generators.
 - They convert the mechanical energy into electrical energy.
- The importance of the internal switch in a thermostat.
 - It automatically turns the thermostat on and off to control the appliance temperature.

Second: Look at the following figures, then answer:



- What happens if bulb no. (2) is disconnected in this circuit?
 - The rest of the light bulbs turn off.



- a. This figure represents the **freezing** process.
b. The kinetic energy of molecules **decreases**, and the spaces between molecules **decrease** as well.

3 A) Complete the following sentences:

- 1 The cell wall is made of **cellulose**.
- 2 During sweating, waste products leave the body through the **skin**.

B) Give a reason for:

- 1 The nucleus has an important role in the cell.
 - Because it controls the cellular activities, such as the cell division into new cells, and the formation of proteins.
- 2 The galvanometer needle moves when the magnet is pushed into the coil.
 - Because the motion of the magnet changes the magnetic field inside the coil into electric current which the galvanometer detects.
- 3 The mass of the popped corn is less than the mass of the popcorn grains after heating.
 - Because popcorn grains contain a small amount of moisture, this water evaporates, which decreases the total mass of the popped corn.

4 A) Write the scientific term:

- 1 A complete, closed path where electricity can flow through. (**Electric circuit**)
- 2 The measure of the average kinetic energy of molecules and atoms of a substance. (**Temperature**)

B) Answer the following questions:

- 1 During dangerous situations, the brain sends signals to the heart. Explain why.
 - To increase the speed of the heartbeat and push more blood to the muscles as a physical response of the body.
- 2 What is the role of the circulatory system during a fight-or-flight response?
 - The heart begins to beat quickly, so it pushes more blood rich in oxygen to the muscles, and other vital organs; consequently, the blood pressure increases.
- 3 New materials can be created in several ways. How is glass made?
 - Glass is made by heating sand with small amounts of limestone and soda ash in a very hot furnace until the mixture melts, then it cools and hardens into glass.

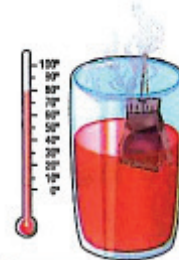
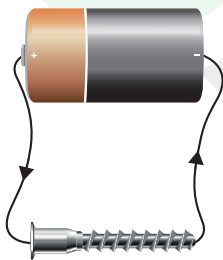
1 A) Correct the underlined word:

- The speed of heat transfer decreases when the surface area of contact between two objects increases. (increases)

B) First: What is meant by ...?

- Cellular respiration.
 - It is the process of using oxygen gas to get energy from food by converting sugars to help the cell perform its function.
- Relaxation process.
 - It is the process by which skeletal muscles increase in length.

Second: Look at the following figures, then answer:



- How can the magnetic field produced by this device be increased?
 - By increasing the number of loops "turns" in the coil.
- What happens if a thermometer is placed in this cup?
 - The alcohol inside the thermometer expands and its volume increases due to thermal expansion.

2 A) Cross out the odd word:

- Nickel – Copper – Steel – Iron. (Copper)

B) First: Answer the following questions:

- Animal cells do not have a cell wall to provide a fixed shape—so how do they keep their shape?
 - Some living organisms, such as humans and many animals, have bones.
 - Some animals, such as insects, have an exoskeleton that covers their bodies.
- How is food chemically digested in the mouth?
 - The salivary glands secrete the digestive enzyme (saliva) that mixes with food and breaks it down chemically.

Second: Mention ...:

- 1 The function of resistors.
 - They slow down the flow of electrons in the electric circuit.
- 2 Two properties of heat.
 - Heat cannot be lost, but transferred from one object to another.
 - Heat transfers from a hotter object to a cooler object.

3 A) Complete the following sentences:

- 1 Golgi apparatus and endoplasmic reticulum are responsible for transporting different materials in the cell.
- 2 The nervous system controls the body responses when it faces danger.

B) What happens ...?

- 1 When the distance between the Earth and an object is doubled. (In terms of gravity)
 - The gravitational force between them decreases.
- 2 When the thermal energy is removed from water vapor.
(In terms of the process, and the forces between particles)
 - Condensation process occurs, and the forces that hold particles together increase.
- 3 If the chloroplasts are removed from a plant cell.
 - The plant cannot make its own food during photosynthesis process.

4 A) Write the scientific term:

- 1 The temperature at which a liquid changes into a gas. (Boiling point)
- 2 A group of organs that work together to perform a specific function for the body. (A system)

B) Give a reason for:

- 1 The muscle cell is a long fiber.
 - To allow movement and to be able to store and use energy quickly.
- 2 Touching a non-insulated wire causes an electric shock and may kill people.
 - Because the human body contains a lot of water which is a good conductor of electricity.
- 3 At the same room temperature, a metal doorknob may feel cooler than a wooden door.
 - Because metals transfer heat away from our hands more quickly, making them feel cold, while wood transfers heat much more slowly.

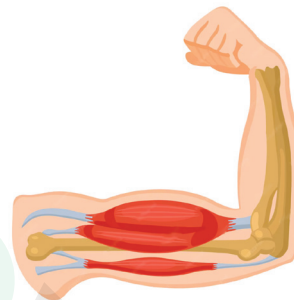
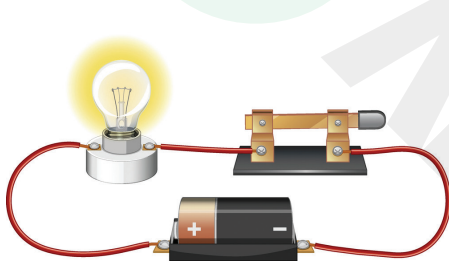
1 A) Complete the following sentences:

- Heat is considered a form of **energy** which is measured in **calorie**.

B) First: What happens ...?

- If much water enters the cell.
 - The cell will swell and burst.
- If nephrons are blocked or damaged.
 - The blood will not be filtered from harmful substances such as urea and other wastes in the form of urine.

Second: Look at the following figures, then answer:



- What will happen if a piece of rubber is placed in this electric circuit? And why?
 - The light bulb will turn off because rubber is an insulator, and it will stop the flow of electric current and opens the circuit.
- Explain how the forearm moves as shown in the figure.
 - The back muscle relaxes and the front muscle contracts.

2 A) Correct the underlined word:

- The esophagus muscle helps lung to take in and move out gases. (diaphragm)

B) What is meant by ...?

- Magnetic field.
 - It is the space around the magnet where its magnetism appears.
- Thermal contraction.
 - It is the decrease in the volume of a substance when its temperature decreases.

Second: Compare between ...:

1

P.O.C	Solid state	Gaseous state
Ability to compress	It can't be compressed.	It can be compressed under pressure.
Thermal energy of particles	They have the least thermal energy.	They have the greatest thermal energy.

2

P.O.C	Petroleum oil	Plastic
State of matter	Liquid	Solid
Ability to burn	It burns easily.	It resists burning.

3

A) Put (✓) or (X):

- 1 Tissues are a group of similar cells. (✓)
- 2 Like poles attract, while unlike poles repel. (X)

B) Give a reason for:

- 1 Human is a multicellular organism.
 - Because its body consists of more than one cell.
- 2 The respiratory system and the circulatory system work together during the fight-or-flight response.
 - Because the breathing rate increases and the heart rate increases to send more oxygenated blood to the muscles and brain.
- 3 The final temperature after mixing hot and cold water is slightly less than the average temperature.
 - Because some heat energy is lost to the surroundings (air) during mixing.

4 A) Choose the correct answer:

- 1 One of the components of the cell that packs and transports materials between the cells is
a) vacuole b) Golgi apparatus c) mitochondria d) cytoplasm
- 2 What happens when a hot metal spoon is placed into a cup of cold water?
a) Heat flows from water to the spoon.
b) Heat flows from the spoon to water.
c) Both the spoon and water stay at the same temperatures.
d) The spoon becomes colder than water.

B) Answer the following:

- 1 In homes, electric circuits are not connected in series. Explain why.
 - Because if one device is burned or turned off, the other devices would stop working.
- 2 What are the similarities between gravity and magnetism?
 - Both are invisible, non-contact forces that can attract objects without touching them.
- 3 What is the idea of working of a thermometer?
 - It is based on the thermal expansion and contraction, which is the change in the volume of the liquid inside the thermometer due to temperature changes.

1 A) Put (✓) or (X):

- Cell biologists are scientists who study cell.

(✓)

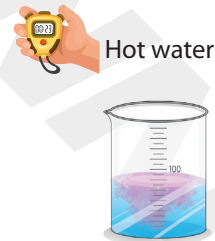
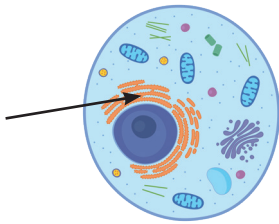
B) What happens ...?

- 1 To the plant cell if its cell wall is not present.
 - It would not keep its definite shape.
- 2 When the diaphragm muscle contracts.
 - It moves down and the lungs take in air during inhalation process.
- 3 To the voltage "amount of generated electric current" when the number of coil loops increases.
 - The voltage will increase.
- 4 If the handles of cooking pans are made of iron.
 - The handles will conduct heat quickly, making them very hot and unsafe to hold.

2 A) Correct the underlined word:

- When a 10-gram chocolate cube melts, the mass of the molten chocolate will be 5 grams. (10 grams)

B) First: Look at the following figures, then answer:



- 1 What happens if the organelle shown in this figure will not function properly?
 - The cell will not be able to collect and transport proteins, so it cannot build or repair its structures properly.
- 2 When food coloring is added to this beaker, its particles spread very fast. Explain why.
 - As the temperature of water increases, the kinetic energy of its particles increases, which increases their collisions with the food coloring molecules, making it spread very fast.

Second: Mention ...:

- 1 The function of artificial pacemaker.
 - It stimulates the heart muscle to beat at regular intervals for patients with slow or irregular heartbeats.
- 2 The way of heat transfer that occurs when you touch a hot metal spoon.
 - Heat is transferred by conduction.

3 A) Complete the following sentences:

- 1 A muscle can only exert force when it **contracts**.
- 2 **Solids** and **liquids** have definite volumes.

B) Give a reason for:

- 1 The heart muscle is considered an involuntary muscle.
 - Because we cannot control its movement.
- 2 The switch is an important component of the circuit.
 - Because it is used to open and close the electric circuit.
- 3 Water loses thermal energy when it is cooled.
 - Because the speed (kinetic energy) of its particles decreases when temperature decreases, so the thermal energy which is the total kinetic energy of particles also decreases.

4 A) Choose the correct answer:

- 1 All of the following show the relation between electricity and magnetism, except
 - a) electric motor
 - b) electric generator
 - c) **wind turbines**
 - d) electric transformer
- 2 When the thermal energy of water vapor increases,
 - a) it turns to water
 - b) the kinetic energy of its particles decreases
 - c) its particles move slower
 - d) **its particles move faster**

B) Answer the following questions:

- 1 What is the importance of microscopes?
 - They allow us to see and study tiny objects that cannot be seen with the naked eye, such as the plant cell and animal cell.
- 2 Define urea.
 - It is a waste product formed from the breakdown of proteins in the body and it is eliminated by the kidneys.
- 3 Compare between thermal conductors and thermal insulators in terms of their ability to conduct heat.

Thermal conductors	Thermal insulators
They are materials that allow heat to transfer through.	They are materials that do not allow heat to transfer through or slow it down.

1 A) Write the scientific term:

- It is a gelatinous liquid that surrounds all the cell organelles. (Cytoplasm)

B) Give a reason for:

- 1 The kidney is considered the main organ in the urinary system.
 - Because it is responsible for cleaning and purifying the blood from the wastes dissolved in it.
- 2 All objects on or near the Earth are pulled towards its center.
 - The Earth has a greater mass than all objects located on its surface or near it; therefore, it has the greatest gravitational force, which pulls objects toward its center.
- 3 When oil is poured into a container, it takes its shape.
 - Because liquids have no definite shape, and their particles are loosely held together and can move freely, so they take the shape of the container.
- 4 You feel the heat of the Sun although there is a space between the Sun and Earth.
 - Because heat transfers by radiation through space in the form of waves, without the need for a medium.

2 A) Choose the correct answer:

- All of the following are organs of the musculoskeletal system, except
 - a) bones b) cartilage c) tendons d) esophagus

B) First: Mention ...:

- 1 The factors that increase the electric current generated by magnetism.
 - Increasing the speed of the moving magnet.
 - Increasing number of the coil loops.
- 2 Three properties of smart clothes.
 - They are flexible fabrics.
 - They light up in the dark.
 - They keep the temperature of the body.

Second: What happens ...?

1 If the pancreas and the gallbladder do not secrete their enzymes and juices in the small intestine.

- The chemical break down of food in the small intestine will not happen.

2 If the pancreas doesn't make its function properly.

- The person will develop diabetes.

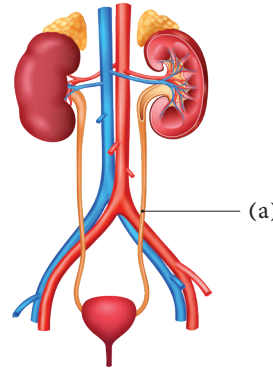
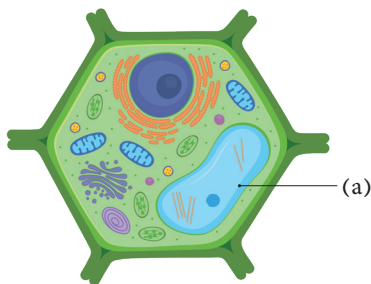
3 A) Complete the following sentences:

1 Chloroplasts are the food factories in the plant cell.

2 In parallel connection, if one bulb blows out, the rest of the bulbs remain lit.

B) Answer the following questions:

- Look at the following figures, then answer:



1 What happens if organelle (a) is not present?

- The plant cannot store nutrients, water, and wastes.

2 If organ (a) is removed, what will happen?

- The urine will not pass from the two kidneys and will not be collected in the urinary bladder.

3 Heat is transferred through water by convection when it is heated. Explain.

- When water particles near the bottom are heated, they rise to the surface, and replace the cold water particles which sink down, creating a continuous movement that transfers heat by convection.

4 A) Correct the underlined words:

1 Absorption of digested food begins in the stomach. (small intestine)

2 Particles of gases have the least thermal energy as they vibrate in their position. (Particles of solids)

B) What is meant by ...?

1 Selective permeability.

- It is the property that allows some substances enter or leave the cell.

2 Magnetism.

- It is a force that allows a magnet to attract certain materials without making direct contact.

3 Thermal energy.

- It is the total sum of kinetic energy of atoms and molecules in a substance.

حمل الآن

مجاناً وحصرياً

امتحانات رقم (3)

الترم الاول





First question: A-Choose the correct Answer

1-A living organism grow and reproduce by increasing..... the of its body cells

- | | |
|------------|------------|
| (a) size | (b) number |
| (c) volume | (d) length |

2-.....allow water which is necessary for life to enter the cell.

- | | |
|------------------|-------------------|
| (a) nucleus | (b) cell membrane |
| (c) mitochondria | (d) cytoplasm |

3- Objects with more thermal energy have..... kinetic energy.

- | | |
|--------------|----------|
| (a) more | (b) less |
| (c) the same | (d) no |

4..... is the transfer of heat due to the movement of molecules in a liquid or gas.

- | | |
|---------------|----------------|
| (a) radiation | (b) conduction |
| (c) freezing | (d) convection |

B. Describe the following city structures as cell structure

1- City hall as

2- Electric power station as

Second question :A-Put(✓) or (x)

- 1) Neck muscles are from voluntary muscles
- 2) Nephrons are microscopic filters that remove harmful substance from body
- 3) Melting point is the temperature at which liquid matter changes into solid
- 4) Iron is example for materials that resists the transfer of heat energy

B- Mention the function of:

Generator.

Third question: - A- Complete the following sentences using the words between brackets

(Electron- Fixed-kidneys -Condensation)

1. The In the urinary system purify the blood.
2. is Small electric charges moving in the wires in a closed electrical circuit.
3. Matter in the liquid state has..... ... Volume
4.is the change of matter from gaseous state to liquid state by cooling,

B-Cross out the odd word:

Molecules spread out - Spaces increase-Expansion – Contraction





Pilot test (2)

First question: A-complete the following

1. Theis the component of the cell that allow water to enter and exit the cell
2. The body sends more to the muscle and brain when the rate of heart beats increases
3. To adjust the temperature inside some devices as fridge, is used
4. Gold and copper are considered frommaterials as they do not attracted to the magnet

B-What happened if:

1. Absence of expansion joints in the designed bridges

Second question :A-put (✓) or (✗)

- 1) Heat transfers between two objects that have the same temperature
- 2) Mitochondria provide the cell with the needed energy
- 3) The electric devices in houses are connected in series
- 4) The muscle that helps in moving the eyes is a voluntary

B-Write the scientific term

- 5) The movement of charged particles through a conducting wires

Third question: - A-choose the correct answer

1. All of the followings are helping in excretion process except
 - (a) Skin
 - (b) Lungs
 - (c) Urinary system
 - (d) Digestive system
2. The magnetic field can be formed when the electric current flows in wires around.
 - (a) battery
 - (b) Glass core
 - (c) Air
 - (d) Metal core
3. The object that has less thermal energy has.....energy
 - (a) less
 - (b) same
 - (c) more
 - (d) zero
4. Heat energy transfers through solids by
 - (a) radiation
 - (b) convection
 - (c) conduction
 - (d) a and c

B-Some electric circuits contain resistor





First question: (A) Choose the correct answer:

1.....is a material that cannot allow electric current to flow through

- | | |
|-------------|------------|
| (a) Iron | (b) Copper |
| (c) Plastic | (d) Cobalt |

2- Your leg moves due to contraction and relaxation of.....connected to the bones of leg.

- | | |
|-----------|-------------|
| (a) hairs | (b) toes |
| (c) skin | (d) muscles |

3- The body of simple living organisms as bacteria consists of.....

- | | |
|-------------------|----------------------|
| (a) one cell only | (b) different cells. |
| (c) Many cells | (d) ten cells only. |

4-Heat is transferred through copper and iron by

- | | |
|-------------------------------|----------------|
| (a) radiation | (b) conduction |
| (c) conduction and convection | (d) convection |

(B)What happens if: The speed of molecules of a matter when it is heated

Second question : (A)Put (✓)or (×):

- 1) Chloroplasts are found in the cells of banana plant leaves
- 2) Digestive system digests food without the help of nervous system
- 3) The two kidneys remove waste materials from body
- 4) The measuring unit of heat is called calories

(B) Give the reason: Matter may change from one state to another.

.....

Third three: (A) write the scientific term:

- 1) A device that is used to see the structure of living organisms cells
- 2) A disease that is resulting from the disorder of secreting insulin hormone by pancreas
- 3) It is the decrease of the size of a substance due to decreasing of its temperature
- 4) They are materials that slow down the heat transfer through them

(B) Cross the odd word: Nickel-Cobalt-Steel – Copper



Pilot test (4)First question: A. Choose from column (B) what suits it in column (A)

(A)	(B)
1. Digestion process	a) is the process in which excretory system collects the waste materials produced by cells and removes them from the body.
2. Urination process	b) is the process of converting the complex food into simpler substance that the body can use for energy and growth.
3. Excretion process	c) is the process of taking oxygen gas and expelling carbon dioxide gas
4. Respiration process	d) is the process of expelling urine outside the body.
1.	2.
	3.
	4.

B. Give a reason for the following

- The electric circuit contains a switch

Second question : A. choose the correct answer:

1-Al the following muscles are considered as voluntary muscles, except muscles of

(a) Forearm

(b) Neck

(c) Heart

(d) upper arm

2..... are used to stop the flow of electricity.

(a) Resistors

(b) Electric conductors

(c) Electric insulators

(d) Galvanometer

3-Endocrine system secretes.....that control the body temperature and the blood pressure

(a) Hormones

(b) Blood

(c) Water

(d) urea

4-Water changes into ice by

(a) Melting

(b) Freezing

(c) Evaporation

(d) Condensation

B. Write the scientific term of the following:

-It is the organ which filter the blood from wastes and form urine |..

Third question :A. Complete the following sentences using these words:

(Gases-conduction - insulin-cell wall)

1-The plant cell is surrounded by.....

.....have variable shape and volume.

3-Heat transfer through iron by.....

4.....hormone is secreted by pancreas.

B. Cross the odd word:-

conduction-convection-friction- radiation



Pilot test (5)First question: A- Choose the correct answer

1- The Plant cell is characterized from the animal cell by the presence of Chloroplasts and.....

- (a) Nucleus (b) Cell Wall
(c) Cytoplasm (d) Mitochondria

2- The Organ that secretes Insulin hormone for regulating the level of Sugar is

- (a) Pancreas (b) Stomach
(c) Liver (d) Heart

3- By heating water its thermal energy...

- (a) decreases (b) at the same
(c) increases (d) doesn't change

4- Change of matter from Liquid state to the gas state is...

- (a) Freezing (b) Condensation
(c) Melting (d) Evaporation

B- Give reason For the flowing:

The Importance of the Generators.

Second question: A- Choose from column (B) what suits it in column (A)

(A)	(B)
1- Plastic	a- Way of transferring heat through air and Space
2- Cobalt	b- Is the measuring unit of heat.
3- Radiation	c- Is a bad conductor of electricity
4- Calorie	d- is a magnetic material
1.	2. 3. 4.

B- What happens if the Nephrons of the Kidneys Not Work Properly.?

Third question : (A)Put (✓)or (✗):

- The electric devices in house are connected in parallel circuits
- Solid have variable shape and volume
- The magnetism is repulsion force only
- The thermal energy is transfer through water by convection

B-Mention the importance (function) of the chloroplasts in the plant cell?





First question: A-Choose the correct Answer

1. (b)number
2. (b)cell membrane
3. (a)more
4. (d)convection

B. Describe the following city structures as cell structure

1- Nucleus

2- Mitochondria

Second question A-Put(✓) or (x)

- 1-✓
- 2-✓
- 3-x
- 4-x

B- Mention the function of:

It used to change mechanical energy into electrical energy

Third question:- A- Complete the following sentences using the words between brackets

1. kidneys
2. Electron
3. Fixed
4. Condensation

B-Cross out the odd word:

Contraction



قد يكون لهذا التعب الذي تقش تحمله هو
الذي يغير مياتك بأكلها، سيعوضك و
سيراضيك و سيَجبر لخاصرك .





First question: A-complete the following

1. Cell membrane
2. Blood
3. Thermostat
4. Magnetic

B-What happened if:

Buckling of bridges occurs as a result of expansion at high temperatures

Second question :A-put (✓) or (×)

- 1-x
- 2-✓
- 3-x
- 4-x

B-Write the scientific term

Electric current

Third question: - A-choose the correct answer

1. (d)Digestive system
2. (d)Metal core
3. (a)less
4. (c)conduction

B-Some electric circuits contain resistor

Rubber, Plastic and wood

يأت بها
الشمس
كما تمنها قلبك





First question: (A) Choose the correct answer:

1. (c)Plastic
2. (d)muscles
3. (a)one cell only
4. (b)conduction

(B)What happens if: The speed of molecules will increase

Second question : (A)Put (✓)or (✗):

- 1-✓
- 2-✗
- 3-✓
- 4-✓

(B) Give the reason: Due to the change in temperature

Third question: (A) write the scientific term:

- 1-Microscope
- 2-Diabetic disease
- 3-contraction
- 4- isolators materials

(B) Cross the odd word: Copper



مش هيجيلك اللي انت
عايزه بس هيجيلك اللي انت
تستحقه.. مش هتوصل ليا
تتعب، هتوصل ليا تكون
جافوز.. رينا مش هيبعتك
اللى بتتهاه، هيبعتك اللي
انت محتاجه.. احنا بنعمل اللي
علينا بس رينا عالم اعني
وفين وإزاي وقد اية اللي
لأزمك عشان تبقى سعيد، ف
اطهن ومتشلتش لهم ثاني.





First question: A. Choose from column (B) what suits it in column (A)

1-b 2-d 3-a 4-c

B. Give a reason for the following

Because it helps in opening and closing the circuit

Second question : A. choose the correct answer:

1-(c)Heart

2-(a)Resistors

3-(a)Hormones

4-(b)Freezing

B. Write the scientific term of the following: **Kidney**

Third question :A. Complete the following sentences using these words:

1- Gases

3- conduction

4 -insulin

B. Cross the odd word: -friction

ولا بقى عندى طاقة
ولا عندى شغف
ولا عندى خلق
معنديش إلا خدود





First question: A- Choose the correct answer

- 1- (b)Cell Wall
- 2- (a)Pancreas
- 3- (c)increases
- 4- (d)Evaporation

B- Give reason For the flowing:

Because, generator change Mechanical energy into electrical energy which use to lightening house and operating device

Second question: A- Choose from column (B) what suits it in column (A)

1-c 2-d 3-a 4-b

B- What happens if The blood doesn't filter from waste materials

Third question : (A)Put (✓)or (×):

- 1-✓
- 2-×
- 3-×
- 4-✓

B- It contain chlorophyll that absorb light energy from the sun to make photosynthesis process

مَنْ لَا يَفْهَمُ رِسَالَتِكَ الْكُبْرَى
فِي الْحَيَاةِ.. لَنْ يَسْتَوْعِبَ
الْخُطَوَاتِ الَّتِي تَسْبِقُهَا



حمل الآن

مجانا وحصريا

امتحانات رقم (4)

الترم الاول



Model exam (1)

1-(A) Choose the correct answer:

1. The internal switch on a can be used in the refrigerator to adjust its temperature.

- a. battery b. thermostat c. light bulb d. wall socket

2. In a dangerous situation, your eyes send the information to the to perform the suitable action.

- a. brain b. stomach c. lungs d. heart

3. The body of is composed of one cell only.

- a. human b. bacteria c. a big tree d. an elephant

4. Heat is transferred through solids by

- a. radiation only b. conduction and convection
c. conduction only d. radiation and convection

(B) What happens if?

-A magnet is approached close to some iron nails mixed with small pieces of paper.

.....
.....

2-(A) Complete the following sentences:

1- Mitochondria in muscle cells convert inside the cells into which is needed for doing different exercises.

2-Thermal materials allow heat to travel freely through them such as

3-Friction between a moving car and a road causes changing of its energy into energy.

4-The gravity of Earth is affected by two factors which are and.....

(B) Give a reason for:

-Blood cells and proteins can't pass through the kidney's nephrons.

.....
.....

3-(A) Write scientific term:

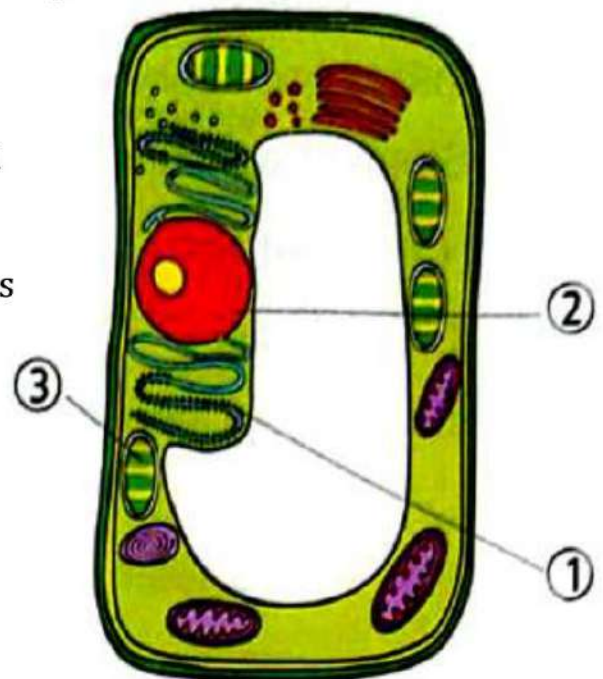
1. It is a group of atoms bound together.	()
2. The organ that controls the level of sugar in the human body.	()
3. It surrounds the plant cell to give it a definite shape.	()
4. A device used to measure the temperature.	()

(B) Look at the following diagram and complete:

1- Structure number controls the formation of proteins.

2-Structure number contains chlorophyll pigment which found in plant cell only.

3-Structure number transports proteins inside the cell to build and repair the cell.



Model exam (2)

1-A)Write (true) or (false)

- (1) The building unit of living organism body is the atom ()
- (2) By increasing thermal energy kinetic energy increase ()
- (3) All cells are similar in the shape and structure ()
- (4) Melting point is the change of matter from solid state to liquid state ()

B)Give reason for:

The green color of plants leaves?

2-A)Choose the correct answer

- (1) The..... energy is related to the motion of particles of matter.
a. Chemical. B. Potential. C. Light. D. Thermal
- (2) Heat transferred through solids by.
a. radiation only. C. Conduction and convention
b. conduction only d. Radiation and convection.
- (3) Material..... On heating.
a. expand b. Contract. C. compress. D. Don't change
- (4) The skeletal system takes nutrients from.....system for the growth of muscles.
a. Circulatory. D. Digestive. C. Nervous. D. Respiratory

B)What happens to

The animal cell is surrounded by a cell wall.

3-A)Write the scientific terms:

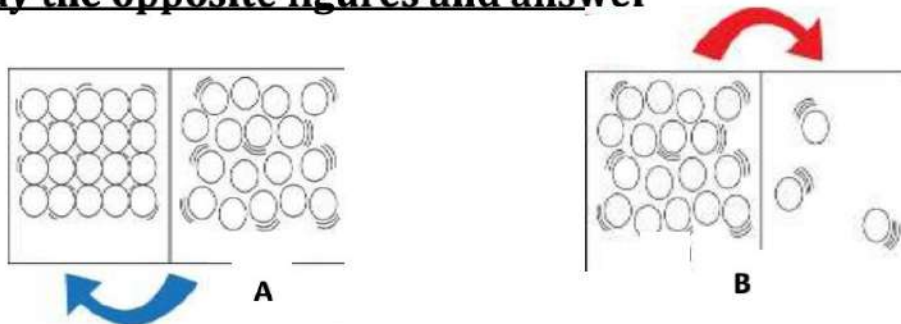
1 - they are sac-like organelles that contain tiny green granules and found in plant cell only ()

2- it is the system that responsible for storing and get rid of waste materials that produced from the cells ()

3 - the area around the magnet in which its magnetic force appears ()

4 - it is the smallest building unit of the matter ()

B)Study the opposite figures and answer



1-Which of the following figures show expansion of molecules?

2-Choose

When we heat matter the molecules (gain – lose) energy.

and the spaces between its molecules (decrease- increase.)

Model exam (3)

1-(A) Choose the correct answer:

1- The energy is related to the motion of particles of matter.

A. Chemical. B. Potential. C. light. D. Thermal.

2- We can see the cell ofwithout using a microscope.

A. Humans. B. lions. C. Plants. D. Birds' egg.

3- is used to slow the flow of an electric current in the electric circuit.

- A. A battery. B. A switch. C. A resistor. D. A lamp.

4- Heat is transferred through air by

- A. Radiation only. B. Conduction only.
C. Conduction and Convection. D. Radiation and Convection.

(B) What happens to:

The level of alcohol inside a thermometer if we put it inside cold water.

.....

2- (A) put true or false:

1. Exoskeleton gives some insects their shapes. ()
2. Cobalt is an example of magnetic materials. ()
3. Expansion and contraction of matter occur due to the changes in temperature. ()
4. In series circuits, the electric current can flow in different branches . ()

(B) Give reason for:

- Muscle cells are in the form of long fiber.

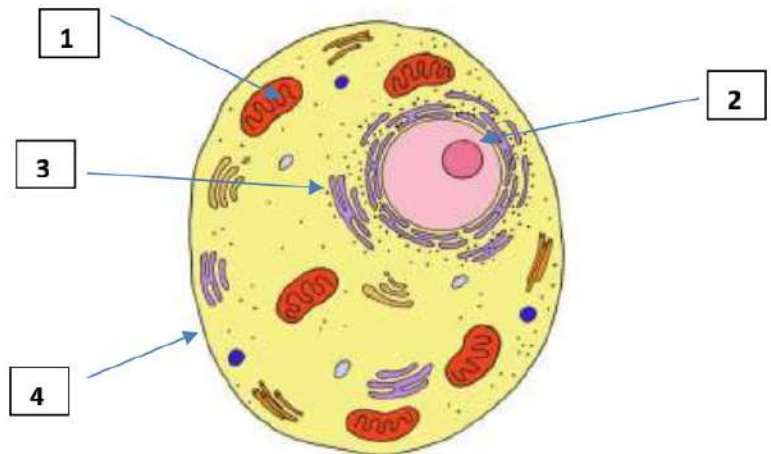
.....

3- (A) Correct the underlined word:

- 1-Pancreas absorbs most of water from the undigested food. (.....)
- 2- Changing the state of matter from gas to liquid is called Evaporation. (.....)
- 3-We can see the cells of all living organisms with the naked eye. (.....)

B) Look at the following figure, then write the correct number beside the suitable sentence:

- 1- Energy producers. (.....)
2- Cell division. (.....)
3- Assembling and transporting proteins. (.....)
4- Selective permeability. (.....)



Model exam (4)

Question (1) : Choose the correct answer:

- 1) The number of cells which build up a baby's body is..... which build up his father's body.
a. more than b. less than
c. equal to d. double
- 2) Stomach is composed of a group of different.....
a. bacteria b. systems c. organs d. tissues
- 3) The structure of plant cell which is made up of cellulose is the
a. Cell membrane b. cytoplasm
c. nucleus d. cell wall
- 4) The two kidneys remove waste materials as,and expel them in the form of urine.
a. Water and urea. c. Urea and blood cells
b. Water and proteins. d. Proteins and blood cells
- 5) The muscle is considered as.....
a. a cell. b. a tissue. c. an organ. d. a system

Question (2) : Put (v) or (X) :

- 1- When chemical change happens, the properties of new materials ~~are~~ the same properties of original materials ()
- 2- Plastic is better than wood in making the handle of cooking pots ()
- 3- Heat is transferred through solids and liquids by convection ()
- 4- When kinetic energy of molecules decreases, they vibrate slower ()
- 5- Scientists use an artificial pacemaker to stimulate heart to beat regularly ()

Question (3) :

A- Write scientific term :

- 1- It is a green pigment which absorbs the energy of sunlight to make photosynthesis process in plants
(.....)
- 2- The system which helps the body to move
(.....)
- 3- The process of expelling urine from the body.
(.....)
- 4- The materials that attracted to the magnet
(.....)

B- What happens to :

The mass of a piece of butter after melting it

.....

Model answer Exam (1)

1-(A) Choose the correct answer:

1. The internal switch on a can be used in the refrigerator to adjust its temperature.

- a. battery **b. thermostat** c. light bulb d. wall socket

2. In a dangerous situation, your eyes send the information to the to perform the suitable action.

- a. brain** b. stomach c. lungs d. heart

3. The body of is composed of one cell only.

- a. human **b. bacteria** c. a big tree d. an elephant

4. Heat is transferred through solids by

- a. radiation only b. conduction and convection
c. conduction only d. radiation and convection

(B) What happens if?

-A magnet is approached close to some iron nails mixed with small pieces of paper.

-The magnet will attract the iron nails, but it will not attract the small pieces of paper.

2-(A) Complete the following sentences:

1- Mitochondria in muscle cells convert **sugar** inside the cells into **energy** which is needed for doing different exercises.

2-Thermal **conductors** materials allow heat to travel freely through them such as **copper**.

3-Friction between a moving car and a road causes changing of its **kinetic** energy into **thermal** energy.

4-The gravity of Earth is affected by two factors which are **distance** and **mass**

(B) Give a reason for:

-Blood cells and proteins can't pass through the kidney's nephrons.

-Because blood cells and proteins are large in size.

3-(A)Write scientific term:

1. It is a group of atoms bound together.	(Molecule)
2. The organ that controls the level of sugar in the human body.	(Pancreas)
3. It surrounds the plant cell to give it a definite shape.	(Cell wall)
4. A device used to measure the temperature.	(Thermometer)

(B) Look at the following diagram and complete:

1- Structure number **(2)** controls the formation of proteins.

2-Structure number **(3)** contains chlorophyll pigment which found in plant cell only.

3-Structure number **(1)** transports proteins inside the cell to build and repair the cell.

Model answer exam (2)

1-A)Write (true) or (false)

- (1)The building unit of living organism body is the atom (F)
- (2)By increasing thermal energy kinetic energy increase (T)
- (3)All cells are similar in the shape and structure (F)
- (4)Melting point is the change of matter from solid state to liquid state (F)

B)Give reason for:

The green colour of plants leaves ?

Due to chlorophyll in chloroplasts .

2-A) Choose the correct answer

- (1) The..... energy is related to the motion of particles of matter.
a. Chemical. B. Potential. C. Light. D. **Thermal**
- (2) Heat transferred through air by.
a. radiation only. C. Conduction and convection
b. conduction only d. **Radiation and convection.**
- (3) Material..... On heating.
a. **expand** b. Contract. C. compress. D. Don't change
- (4) The skeletal system takes nutrients from.....system for the growth of muscles.
a. Circulatory. D. **Digestive.** C. Nervous. D. Respiratory

B) What happens to

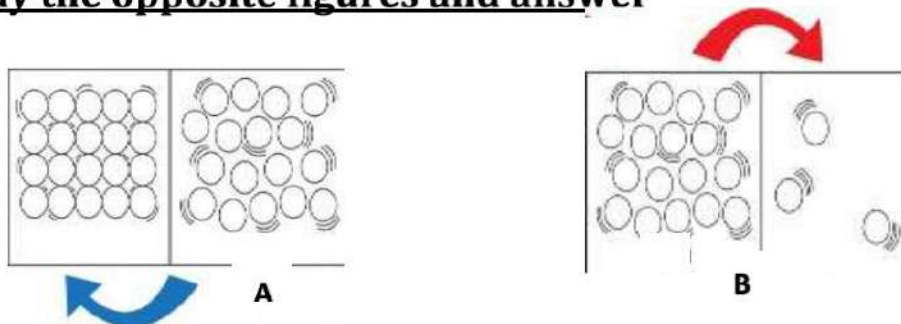
The animal cell is surrounded by a cell wall.

It will take a definite shape

3-A) Write the scientific terms:

- 1 – they are sac-like organelles that contain tiny green granules and found in plant cell only (chloroplast)
- 2- it is the system that responsible for storing and get rid of waste materials that produced from the cells (Human urinary system)
- 3 – the area around the magnet in which its magnetic force appears (magnetic field)
- 4 – it is the smallest building unit of the matter (Atoms)

B) Study the opposite figures and answer



1-Which of the following figures show expansion of molecules? B

2-Choose

When we heat matter the molecules (gain – lose) energy.

and the spaces between its molecules (decrease- increase.)

Model answer exam (3)

1-(A) Choose the correct answer:

1- The energy is related to the motion of particles of matter.

A. Chemical. B. Potential. C. light. D. **Thermal.**

2- We can see the cell ofwithout using a microscope.

A. Humans. B. lions. C. Plants. D. **Birds' egg.**

3- is used to slow the flow of an electric current in the electric circuit.

A. A battery. B. A switch. C. **A resistor.** D. A lamp.

4- Heat is transferred through solids by

A. Radiation only. B. **Conduction only.** C. Conduction and Convection. D.
Radiation and Convection.

(B) What happens to:

The level of alcohol inside a thermometer if we put it inside cold water.

IT will go down and show low temperature level.

2 (A) put true or false:

1. Exoskeleton gives some insects their shapes. (✓)
2. Cobalt is an example of magnetic materials. (✓)
3. Expansion and contraction of matter occur due to the changes in temperature. (✓)
4. In series circuits, the electric current can flow in different branches. (X)

(B) Give reason for:

- Muscle cells are in the form of long fiber.

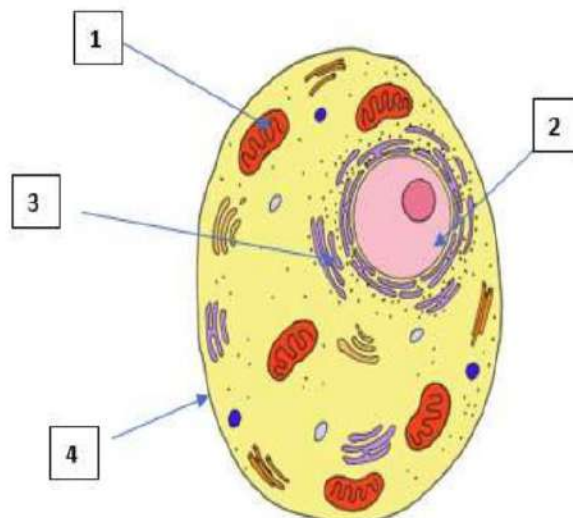
To allow movement.

3 (A) Correct the underlined word:

- 1- Pancreas absorbs most of water from the undigested food. (**Large intestine**)
- 2- Changing the state of matter from gas to liquid is called Evaporation. (**Condensation**)
- 3- We can see the cells of living organisms with the naked eye. (**Microscope**)

B) Look at the following figure, then write the correct number beside the suitable sentence:

- 1- Energy producers. (1)
- 2- Cell division. (2.)
- 3- Assembling and transporting proteins. (3)
- 4- Selective permeability. (4)



Model answer exam (4)

Question (1) : Choose the correct answer:

- 1) The number of cells which build up a baby's body is..... which build up his father's body.
a. more than b. **less than** c. equal to d. double
- 2) Stomach is composed of a group of different.....
a. bacteria b. systems c. organs d. **tissues**
- 3) The structure of plant cell which is made up of cellulose is the
a. Cell membrane b. cytoplasm c. nucleus d. **cell wall**
- 4) The two kidneys remove waste materials as,and expel them in the form of urine.
a. **Water and urea.** c. Urea and blood cells
b. Water and proteins. d. Proteins and blood cells
- 5) The muscle is considered as.....
a. a cell. b. a tissue. c. an **organ.** d. a system

Question (2) : Put (✓) or (X) :

- 1- When chemical change happens, the properties of new materials are the same properties of original materials (**X**)
- 2- Plastic is better than wood in making the handle of cooking pots (**✓**)
- 3- Heat is transferred through solids and liquids by convection (**x**)
- 4- When kinetic energy of molecules decreases, they vibrate slower (**✓**)
- 5- Scientists use an artificial pacemaker to stimulate heart to beat regularly (**✓**)

Question (3) :

A- Write scientific term :

- 1- It is a green pigment which absorbs the energy of sunlight to make photosynthesis process in plants (.....chlorophyll....)
- 2- The system which helps the body to move (.....musculoskeletal.....)
- 3- The process of expelling urine from the body. (.....Urination.....)
- 4- The materials that attracted to the magnet (.....magnetic material...)

B- What happens to :

The mass of a piece of butter after melting it
.....it will not be changed.....

حمل الآن

مجاناً وحصرياً

امتحانات رقم (5)

الترم الاول



Model Exams Primary. 6 final revisionModel exam (1)**1) choose the correct answer:**

- 1) The two lungs expeloutside the body.
a. water and urea b. oxygen c. carbon dioxide d. proteins and blood cells
- 2)is the area around the magnet at which the magnetism can be observed.
a. magnetic force b. magnetic field c. magnetic material d. Non magnetic material
- 3) magnets are used by generators andto produce
a. turbines & sound. b. light & sound. c. electricity and sound . d. turbines & electricity.
- 4) in acircuit all components are connected in one loop
a. open parallel b. open series c. closed parallel. d. closed series.
- 5) 1. The mercury is a liquid molecule consists ofatom\s
a. one b. two c. three d. four
- 6- objects with low thermal energy haskinetic energy
a. high. b. medium c. low d. constant

2) a) Complete the following :

- 1) similar magnetic poles each other while different magnetic poles each other
- 2).....material is a nonmagnetic material.
- 3) When the switch is....., the lamp in circuit will put off .
- 4) materials such as..... and..... don't allow electrons to flow through.

b) What happens in the following case?

1 The blood pass through the two kidneys during its circulation inside the human body.

.....

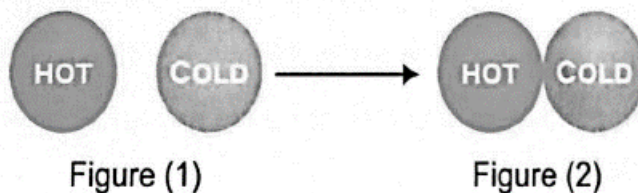
2-the speed of the moving object when it is affected by friction force

.....



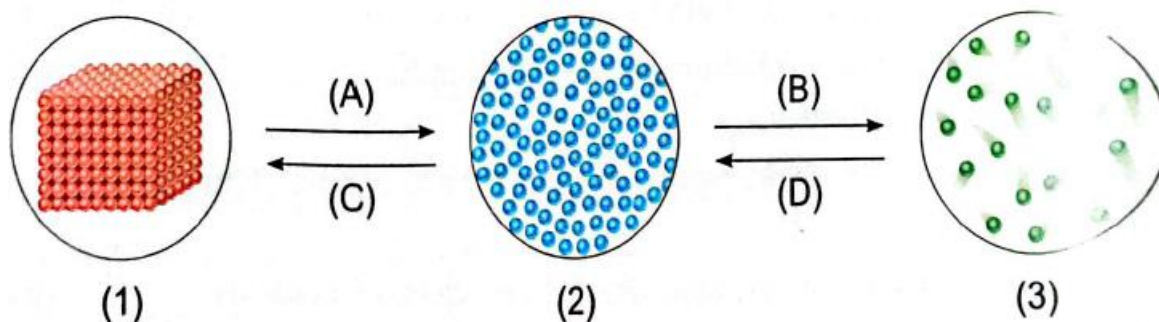

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3)A) look at the following fig. then answer



- 1- heat transfers fromobject toobject
- 2- molecules of hot object movethan cold object

B) look at the following fig. then answer



- 1- the process (A) is called
- 2- the process (D) is called
- 3- The kinetic energy of the molecules in fig (3)than kinetic energy of the molecules in fig. (1)



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Model exam (2)

1) choose the correct answer :

- 1) The two kidneys remove waste materials.....and expel them in the form as of urine.
a. water and urea b. urea and blood cells c. water and proteins d. proteins and blood cells
- 2) Engineers design special devices to work instead of organ which filter the blood from wastes
a. stomach b. heart c. kidney d. lung
- 3) The systems of the human body get their needed energy from
a. the Sun. b. Water. c. food. d. carbon dioxide.
- 4) All the following are from the nutrients that the food contains, except.....
a. Carbohydrates. b. fats. c. oxygen gas. d. proteins.
- 5) 1. The molecule consists of very small particles called
a. Cells. b. Atoms. c. mixtures. d. compounds.
- 6- To make bridges we can use.....
a. flexible fabric. c. smart clothes. b. Concrete. d. glass.

2) a) Complete the following :

- 1) Magnetism is an attraction orforce while gravity isforce only.
- 2).....material is a magnetic material.
- 3) When the switch is....., the circuit will be flows.
- 4) There are materials known as such as..... and..... that allow electrons to flow through.

b) What happens in the following case?

- 1 The blood does not pass through the two kidneys during its circulation inside the human body.
.....
- 2-Bridges if expansion joints are not designed.
.....
- 3-Increasing the time of contact between two objects with different temperatures.
.....



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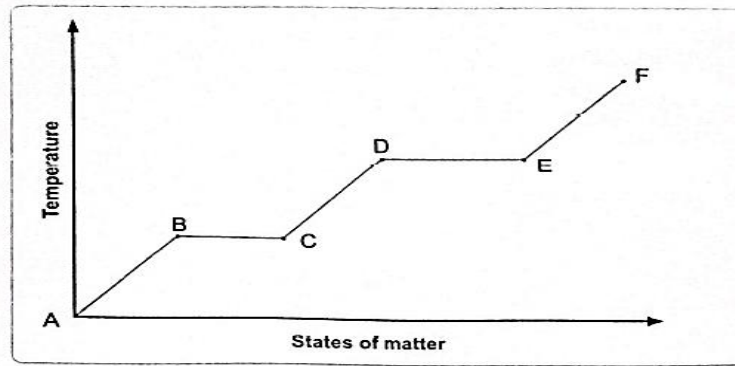
3)a- Put sign (√) or (x) in front of each of the following:

- 1- acid and enzymes which are secreted inside stomach lead to more breaking down of food()
- 2- All materials allow electric current to flow through them. ()
- 3- Saliva is a liquid which is secreted by endocrine system inside your mouth()
- 4- Electric wires are coated with rubber or plastic to protect us from electric shock. ()
- 5- Expansion and contraction are two similar processes. ()
6. Every material is useful for all purposes. ()

b- Classify the following materials into materials that will close the circuit and others will not close it? giving reason?:

(Iron nail - plastic spoon -Rubber -Metallic spoon - Piece of wood - Metallic key)

(4) Look at this diagram, then choose the correct answer:



1. Which state(s) of matter is (are) present at area (A-B)?
a. Solid. b. Gas. c. Solid and gas. d. Liquid and gas.
2. Between which points the substance starts to change from liquid state into gas state?
a. A-B b. B-C c. C-D d. D-E



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Model exam (3)



1) Complete the following

- 1- When the switch is....., the electric current will stop flow.
- 2-Is the source of electricity in any electric circuit.
- 3- The electric wires are covered with.....as it is a to flow electricity through it
4. When you sweat, waste leaves the body through pores in your

2) Write the scientific term of each of the following:

- 1) The organ that is responsible for regulating the sugar level in blood. ()
- 2) A hormone that controls the level of sugar in the human blood. ()
- 3) . It is used to adjust the temperature inside some devices such as the refrigerator. ()
- 4) The materials that the electric charges can flow through. ()
- 5) It is the increase of the size of a substance due to increasing of its temperature. ()
6. It is the state of matter that has a fixed shape and spaces between its molecules are very narrow. ()
- 7) The way by which the heat is transferred through solids only. ()
- 8) A material is made of a mixture of iron and other elements. ()
- 9) The temp. at which matter change from solid state to liquid state . ()
- 10) A form of energy that gained or lost by the matter to change its state. ()

3) Correct the underline word:

- 1) Cobalt is an example of nonmagnetic material
- 2) Battery is used to open and close the electric circuit
- 3) the two kidneys remove wastes materials from undigested food which come out in the form of sweat
- 4) Diabetes is one of the disorders of respiratory system



4) from the figure

1) what the name of this system

.....

2) what is the function of part (X)

.....

5) Give reason for each of the following

1. Electric wires are wrapped in plastic.

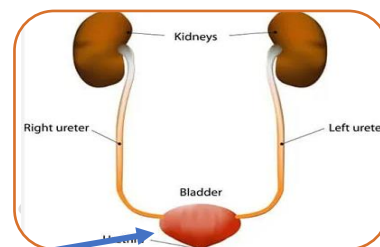
.....

2. Electric wires are made of copper.

.....

3- Ice melts when it is put in a hot cooking pan.

.....



X

**Model Exams Primary. 6 final revision****Model exam (4)****1) Choose the correct answer from each of the following:**

- 1- The area around magnet in which magnetism can be observed
 a-magnetic field b- magnetic substance c- magnetic force d-magnetic energy
- 2- the flow of electric charges along a closed path causes
 a-electric circuit b- electric current c- light energy d-magnetism
- 3-An internal switch in fridge can be used to adjust temperature
 a-battery b-light bulb c- wall socket d-thermostat
- 4-Is used to slow the flow of electric current
 a-battery b-resistor c- lamp d-switch
- 5- The transformation of gas into liquid is called.....process.
 a. Melting b. Evaporation c. condensation d. freezing
- 6-Matter.....it just changes from one state to another.
 a. neither be created nor destroyed
 b. can be created and destroyed
 c. can't be created but destroyed
 d. can be created but can't destroyed

2)Correct the underlined word:

- 1) copper, rubber are electric conductors .
- 2) Erath attract objects to its center due too its great density .
- 3) Rheostat in fridge contain a manual switch
- 4)electric wire can be made of rubber and covered with copper

3) a) Fron the opposite fig

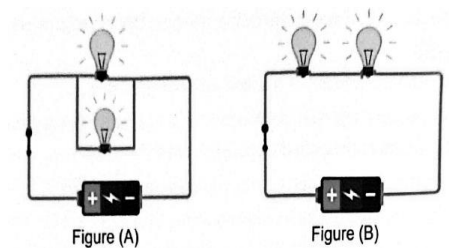
- 1- The parallel circuit is number
- 2- what happen when you remove lamp from circuit (B)

b) Cross the odd word out:

- 1) battery - wires - magnet - lamp.
- 2)glass - cobalt - wood - paper .

4) a) What is the importance of

- 1-battery in electric circuit 2- switch in electric circuit.....



- 2) blood - blood 2)iron -



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b) Give reason for :

1- Cobalt and nickel are considered magnetic materials.

2- Generator is very important in our life

3-Smart clothes have many benefits.

(c) Cross out the odd word:

1-Conduction - Convection - Friction - Radiation.

2- Air - copper - wood - glass


Model Exams Primary. 6 final revision
Model exam (5)

1) Choose the correct answer from each of the following:

1- Urination process happen by the help ofsystem

- a- respiratory b- digestive c- urinary d- nervous

2- the two kidneys remove wastes materials as

- a- water & urea b- urea & blood cells c- water & protein d- protein & blood cells

3- generators are used in

- a- generating heat energy b- operating electric devices c- producing sound d- building houses

4- is a poor conductor substance for electricity.

- a- Iron b- Copper c- Aluminum d- glass

5- Objects with more thermal energy have... kinetic energy.

- a. More b. Less c. the same d. no

6. Heat is transferred through gases by.....

- a. radiation only. b. conduction and convection.
-
- c. conduction only. d. radiation and convection.

2) Put right or false :

1) The electric devices in houses are connected in a series connection (.....)

2) Wood and plastic are electrical insulators (.....)

3) Gravity is a force by which the magnet attract objects to itself (.....)

4) Studying kidney model can save time , money and effort . (.....)

5) Hot water molecules have more kinetic energy than cold water. (.....)

6) Plastic and wood resist and slow down the heat transfer through them. (.....)

3) From the opposite fig

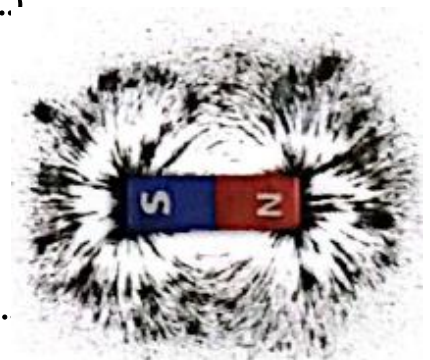
1- the tool is called

2- the tool is surrounded by area called

4) A) Give reason for :

1- Some electric circuits contains resistor.

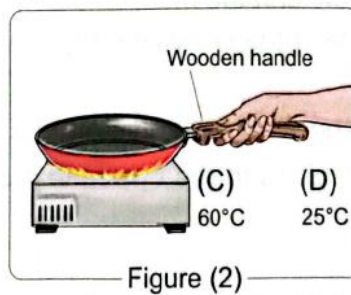
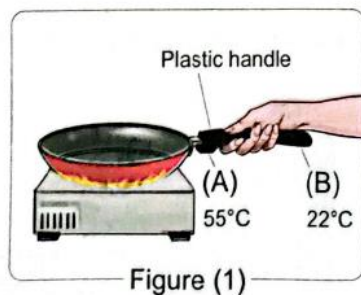
2- when a magnet move rapidly in a coil wire the needle of galvanometer connected to the coil move rapidly





Model Exams Primary. 6 final revision

B- Look at the opposite fig. then answer the following questions:



-Give reason :

- the handles are made up of wood and plastic.

-Complete:

- the handles in fig. Warms faster than the handles of fig



Model Exams Primary. 6 final revision

Model answer (model 1)

- 1) 1-c 2-b 3-d 4-d 5-a 6- c
 2) A) 1- repel - attract 2- glass , wood 3- opened 4- wood & plastic
 B)
 1- Nephron filter the blood and remove the harmful substance
 2-The speed will decrease
 3) A) 1- Hot - cold
 2- faster
 B) 1- melting
 2-condensation
 3- more

Model answer (model 2)

- 1}
 1- a 2- c 3- c 4- c 5- atoms 6- concrete
 2- A)
 1- Repulsion - attraction
 2- Iron - cobalt
 3- closed
 4- copper - iron
 b) 1- the wastes as uria will increase in the blood causes death
 2- it will be bend due to its expansion and may causes accident
 3-the temp. will transfer from body of higher temp.to body of lower temp until it will stop
 Transferring
 3) a) 1-√ 2- x 3- √ 4- √ 5- x 6- x
 b) close the circuit : iron nail - metallic spoon - metallic key
 4- 1- solid
 3- D-E



Model Exams Primary. 6 final revision

Model answer (model 3)

1}

- 1- open
- 2- battery
- 3- plastic - insulator
- 4- skin 5- Expansion 6- Solid state 7- conduction 8 -alloy 9- melting point 10- thermal energy
- 3} 1- wood 2- switch 3- urine 4- endocrine

4) 1- urinary system

2- store urine until it repels outside the body.

5)- 1- bec. plastic is a bad conductor of electricity

2- bec. copper is a good conductor of electricity

3- bec. heat transfer from hot pan to the ice so it melts

Model answer (model 4)

1}

- 1- a 2- a 3- d 4- b 5- c 6- a
- 2} 1- iron 2- mass 3- automatic 4- copper - rubber
- 3} a) 1- A 2 - The other lamp will put off
- b) 1- magnet 2- cobalt
- 4) a) 1- battery is the source of electricity
- 2- switch open and close the electric circuit
- b) 1- Bec. they are attracted to the magnet
- 2- bec . it is used in operating devices in home and generating electricity
- 3- bec. it can : 1- control the body temperature 2-light up in the dark 3- keep themselves clean
- C) 1- friction 2 - cooper



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Model answer (model 5)

1}

1- c

2- a

3- b

4- d

5- a

6- d

2} 1- X 2- ✓ 3- X 4- ✓

3} Magnet 2- magnetic field

4} 1- to adjust the temperature inside the device

2- Bec. magnetism has electrical effect.

B) 1- Bec. wood and plastic are bad conductors of heat

2- fig. 2 - fig. 1

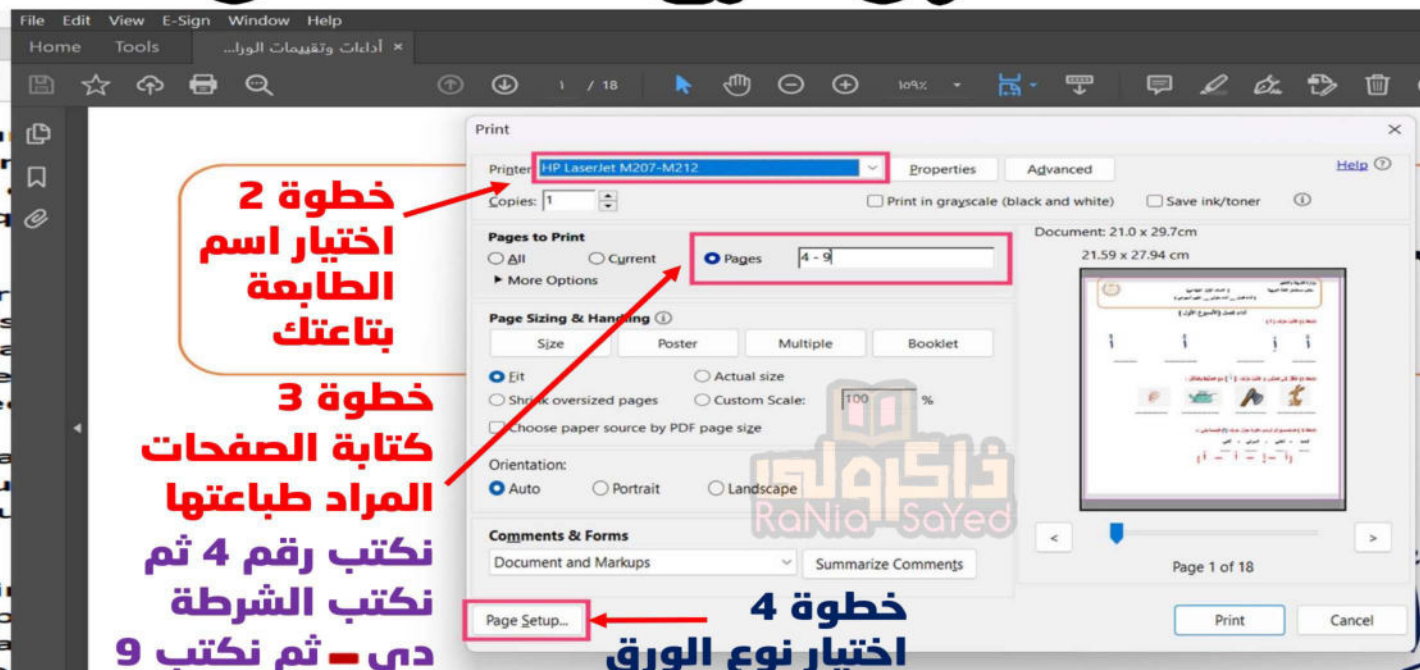
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كيفية طباعة صفحات معينة من ملف معين مثلا ازاي نطبع الصفحات من صفحة 4 الى صفحة 9



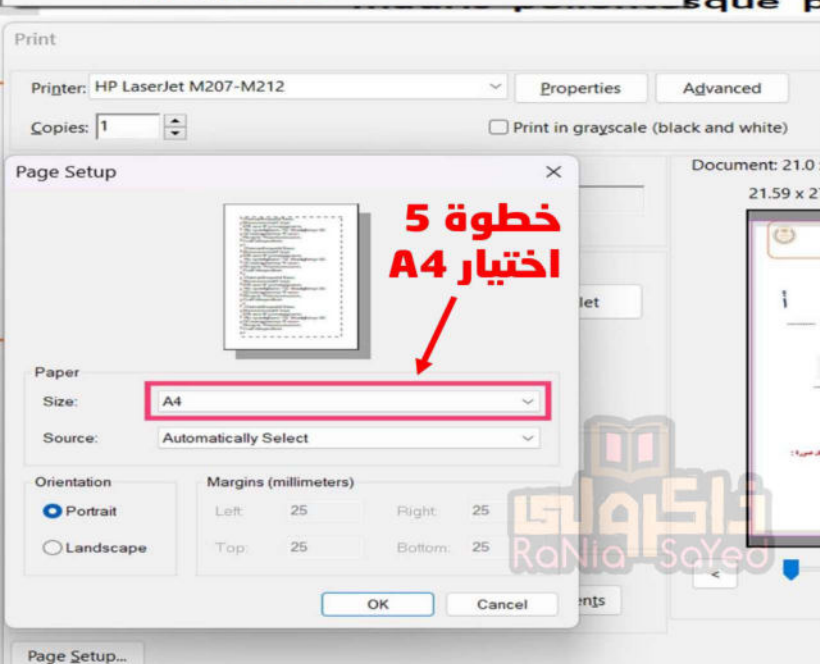
خطوة 1



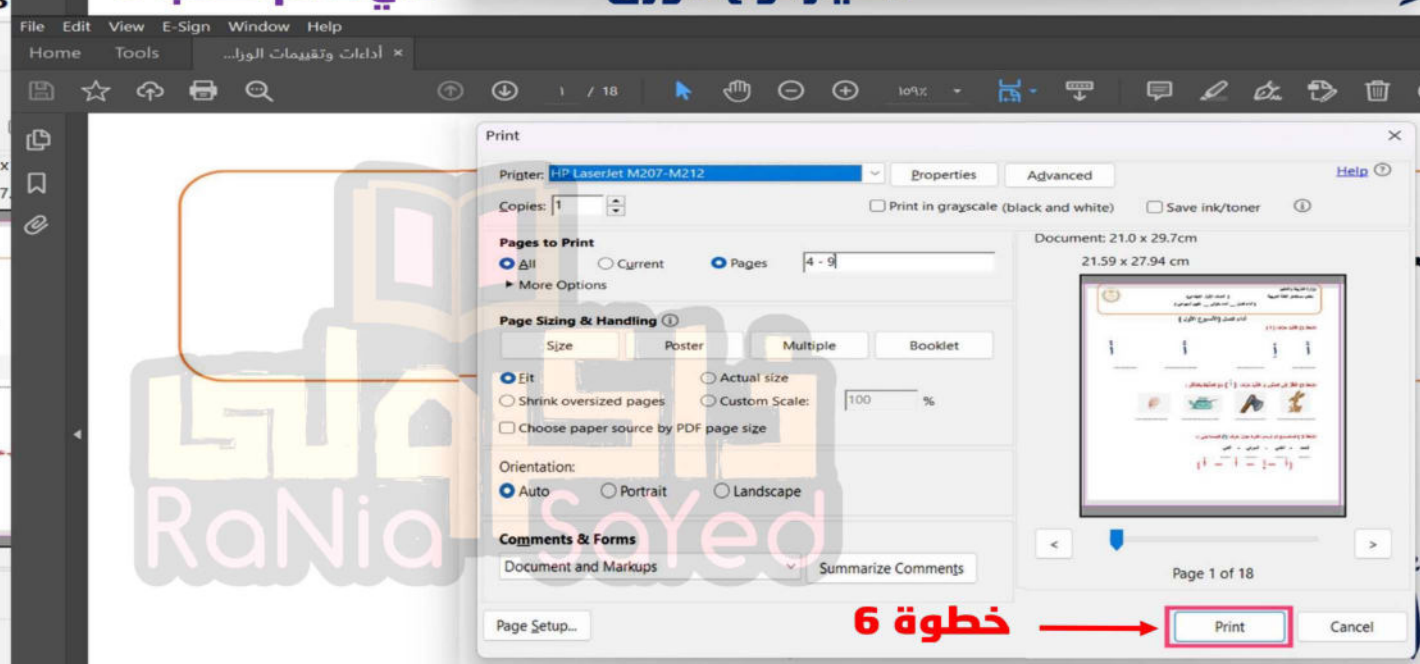
خطوة 2
اختيار اسم
الطابعة
بتاعتك

خطوة 3
كتابة الصفحات
المراد طباعتها
نكتب رقم 4 ثم
نكتب الشرطة
دي - ثم نكتب 9

خطوة 4
اختيار نوع الورق



خطوة 5
اختيار A4



خطوة 6